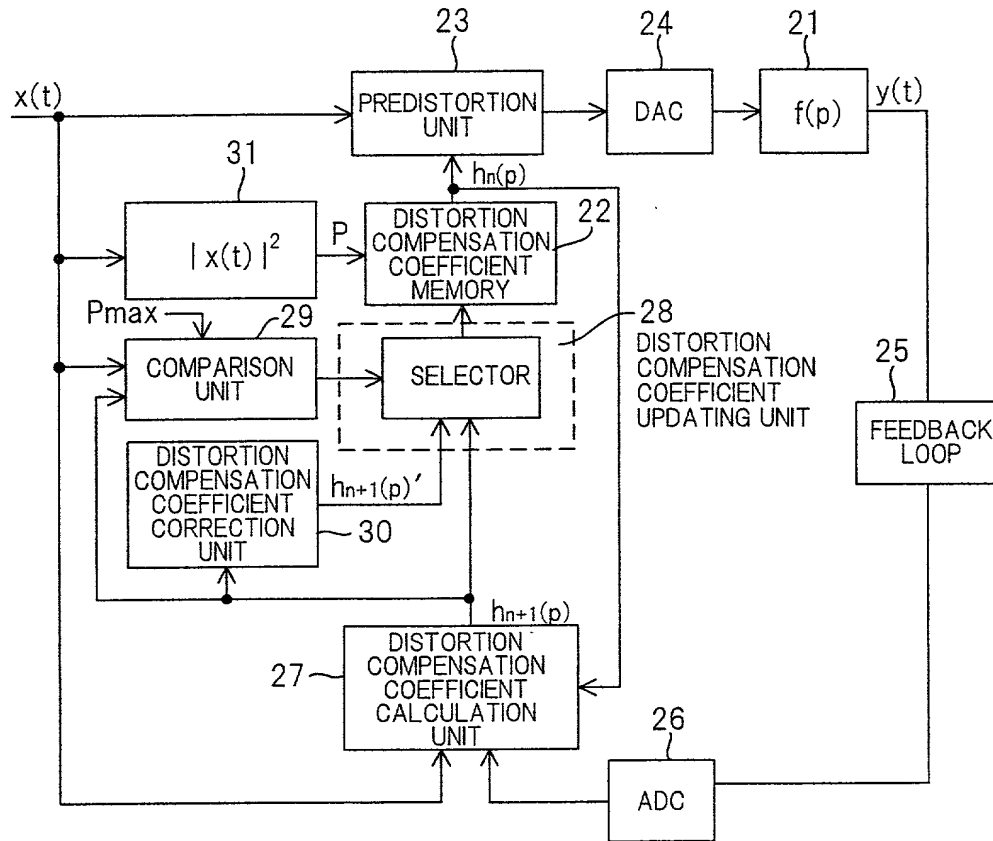
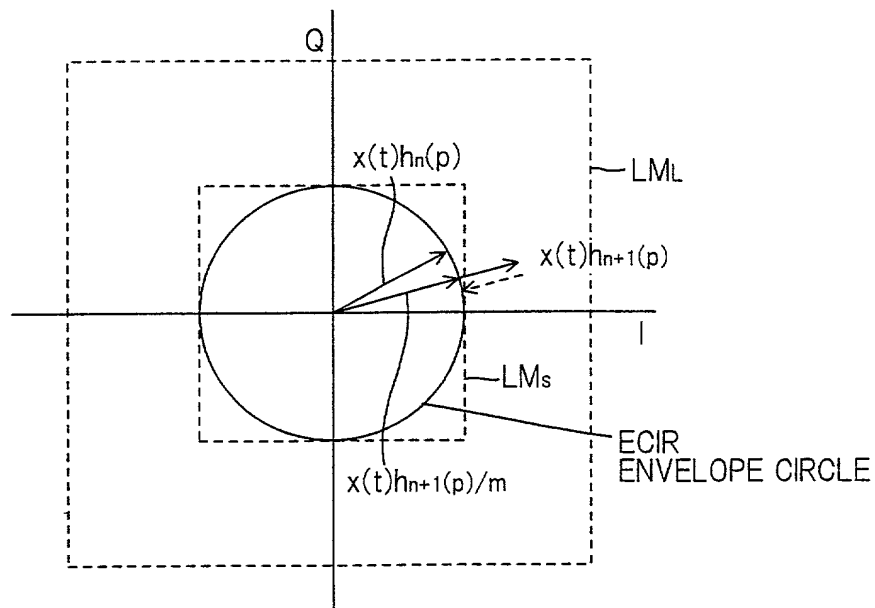


**FIG. 1****FIG. 2**

**FIG. 3**

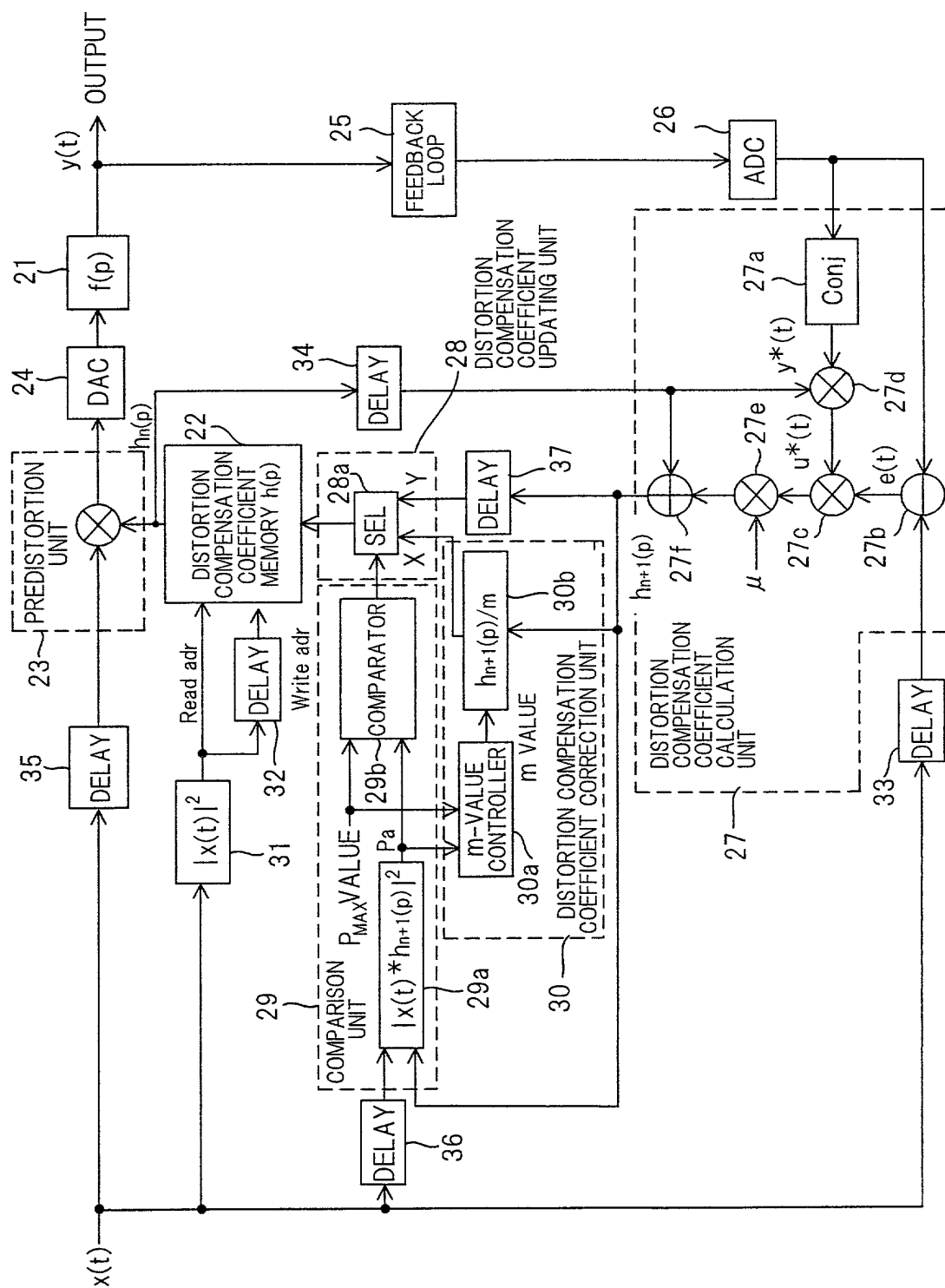


FIG. 4

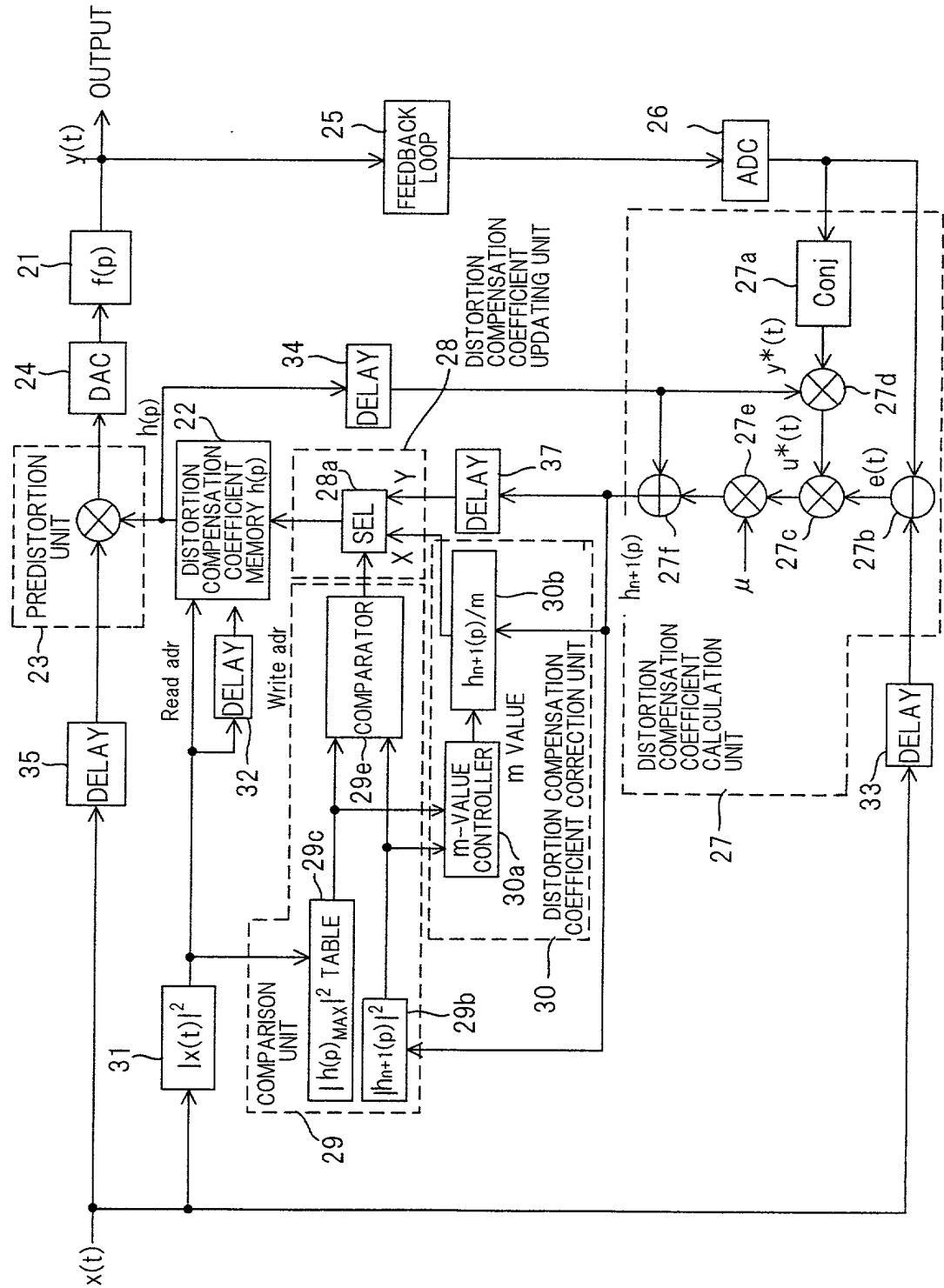


FIG. 5

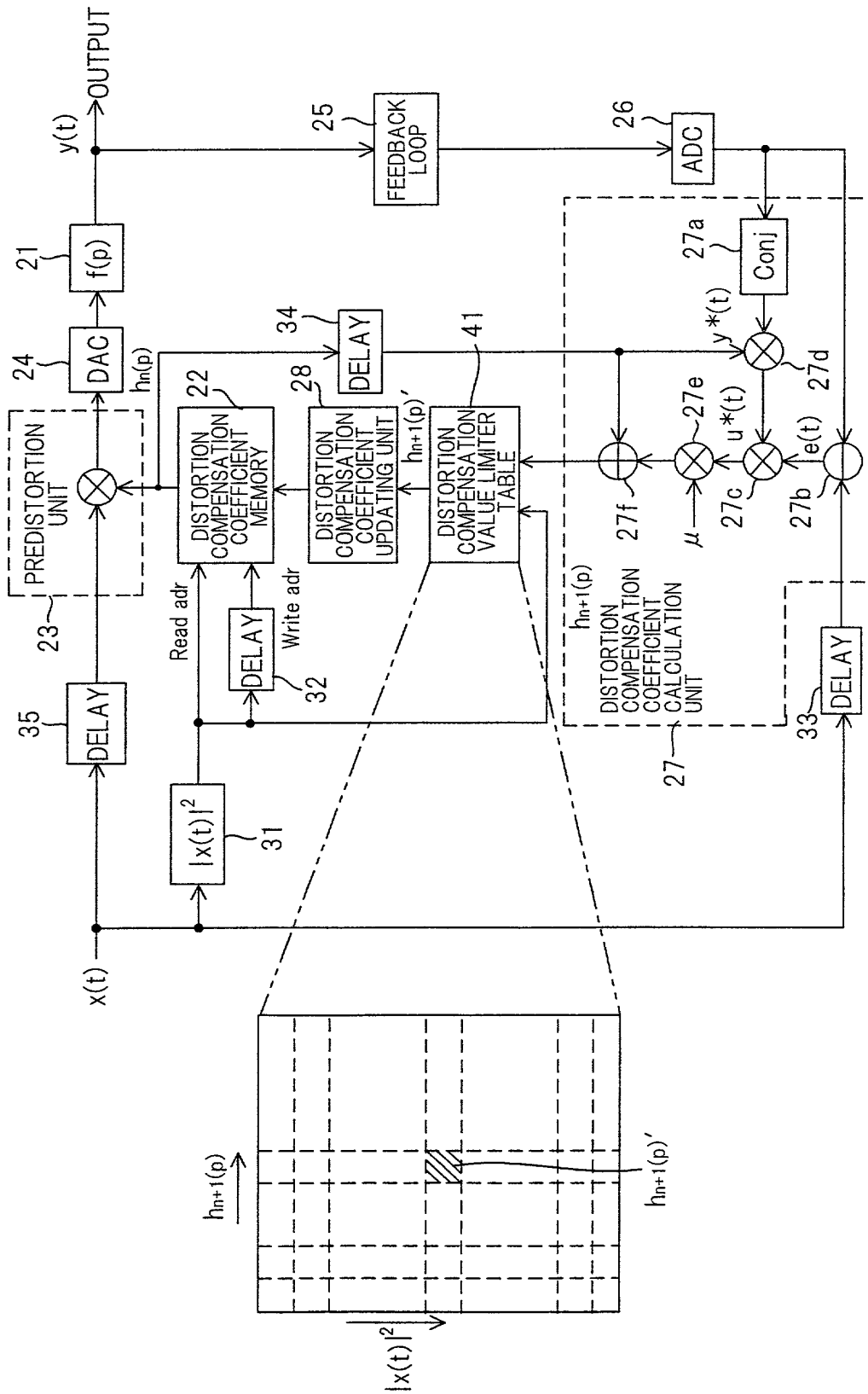
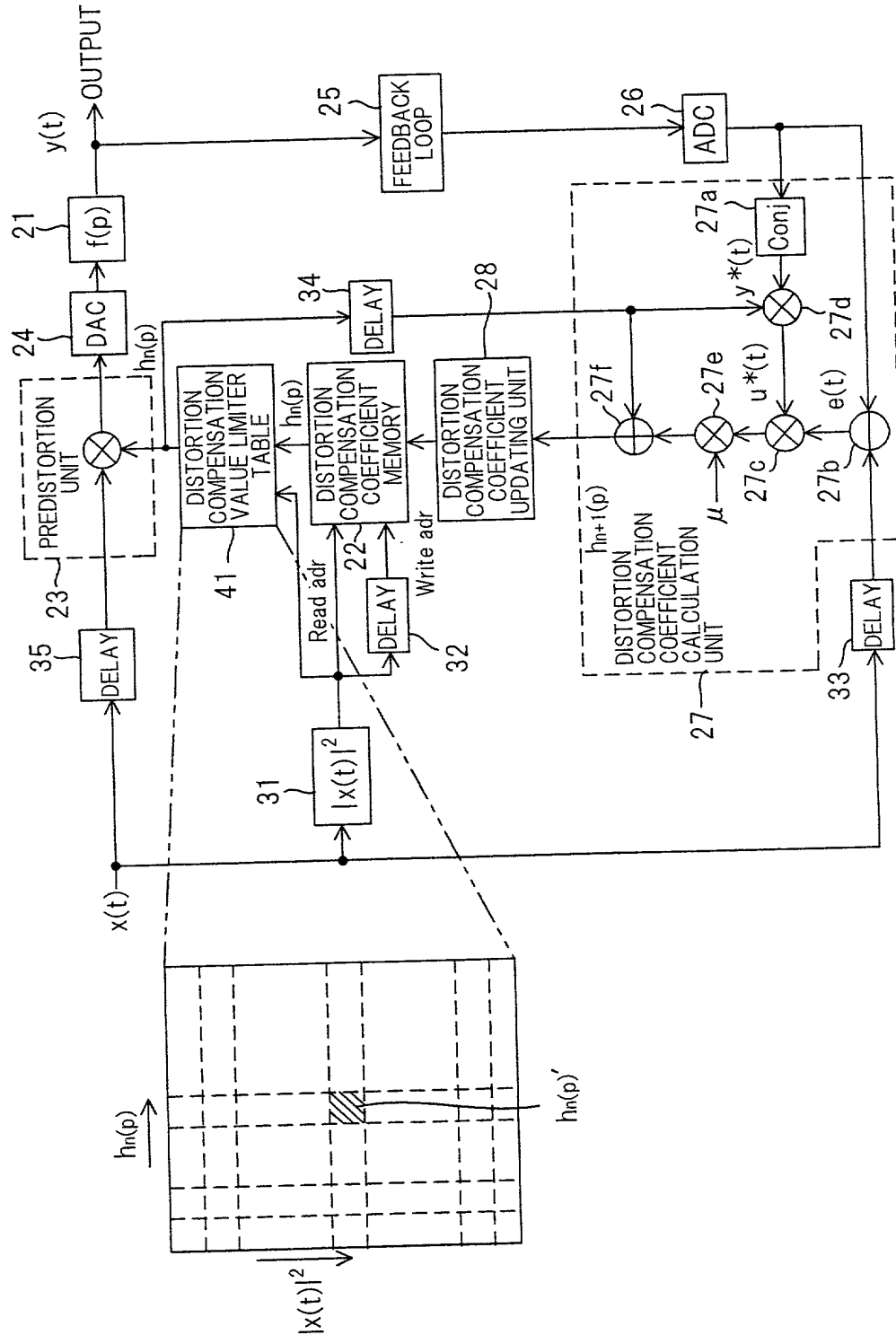


FIG. 6



**FIG. 7**

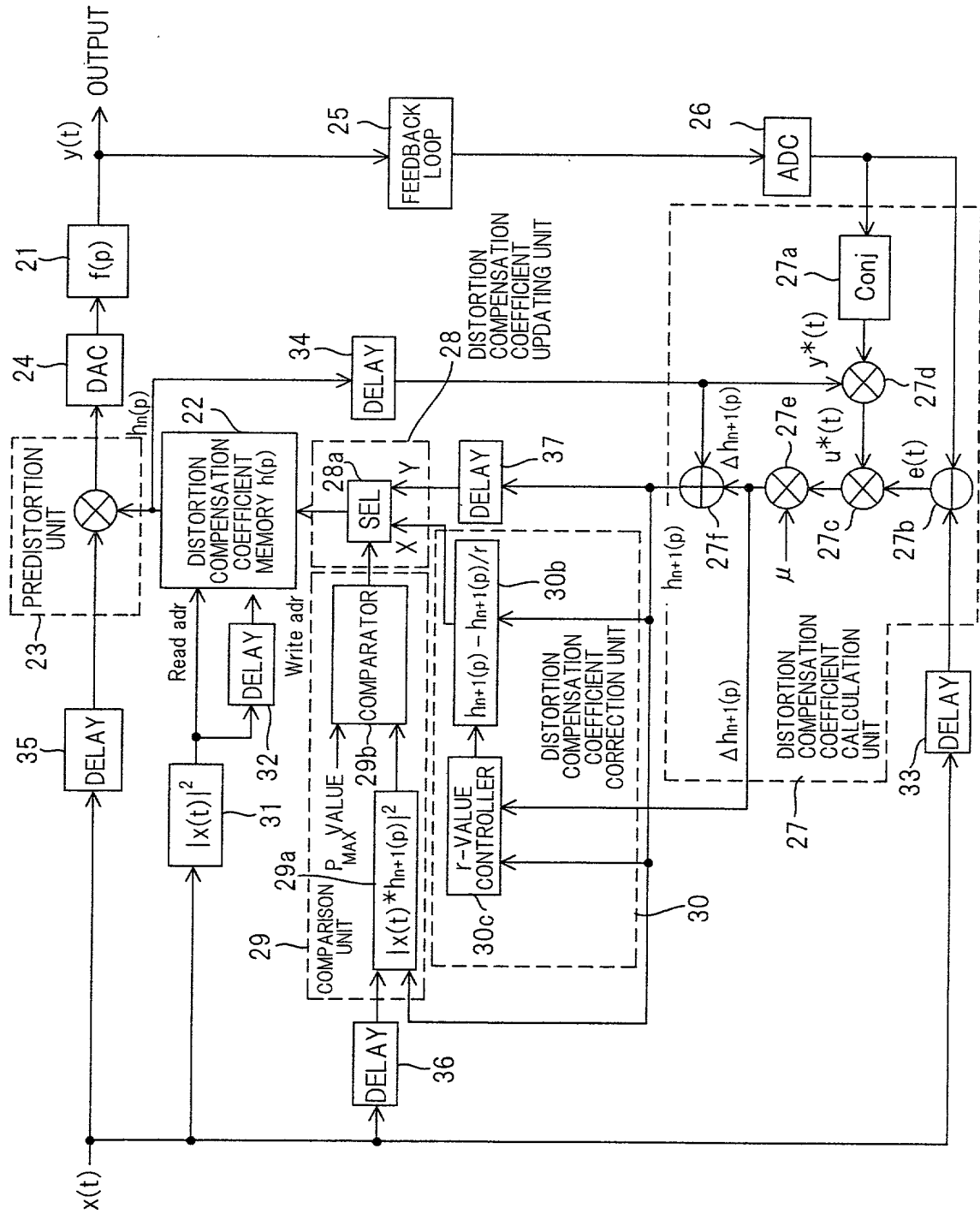


FIG. 8

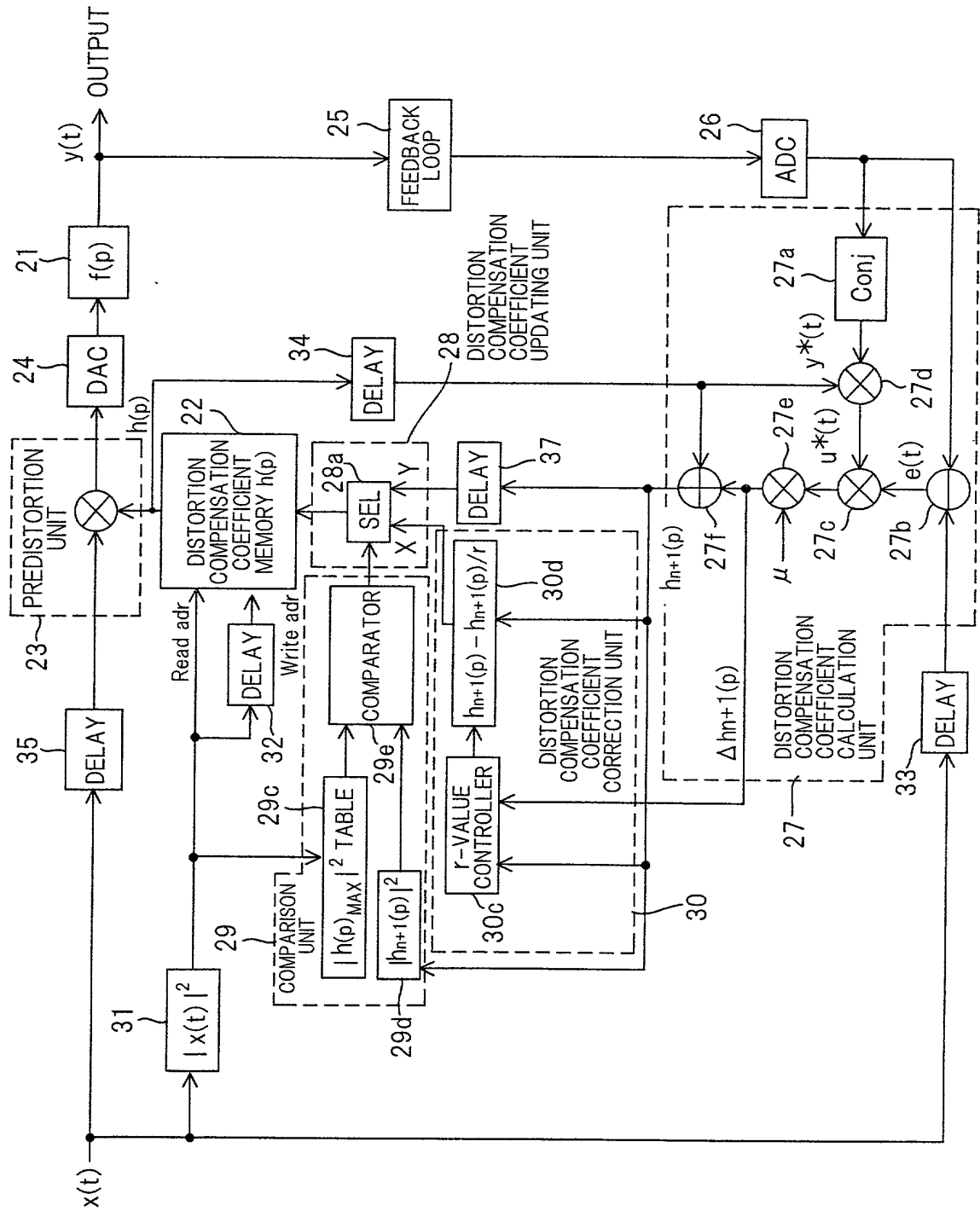


FIG. 9

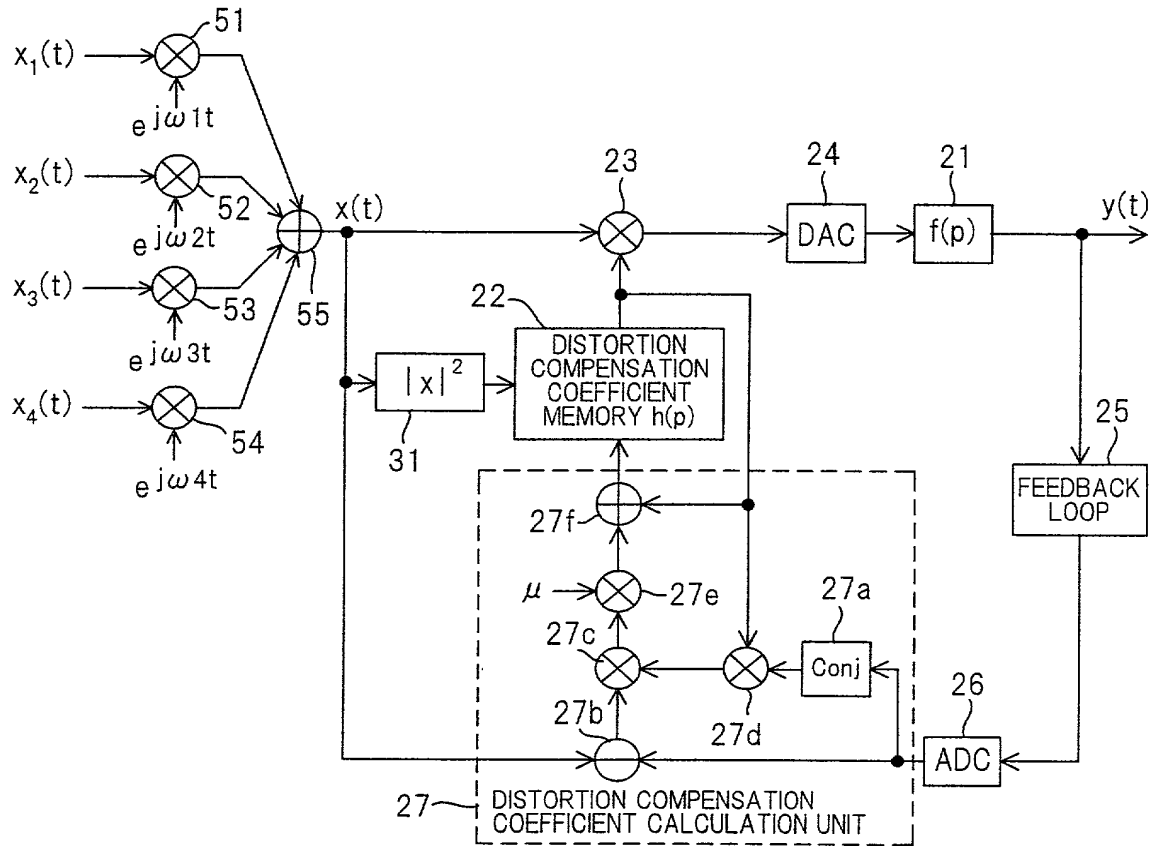




FIG. 10

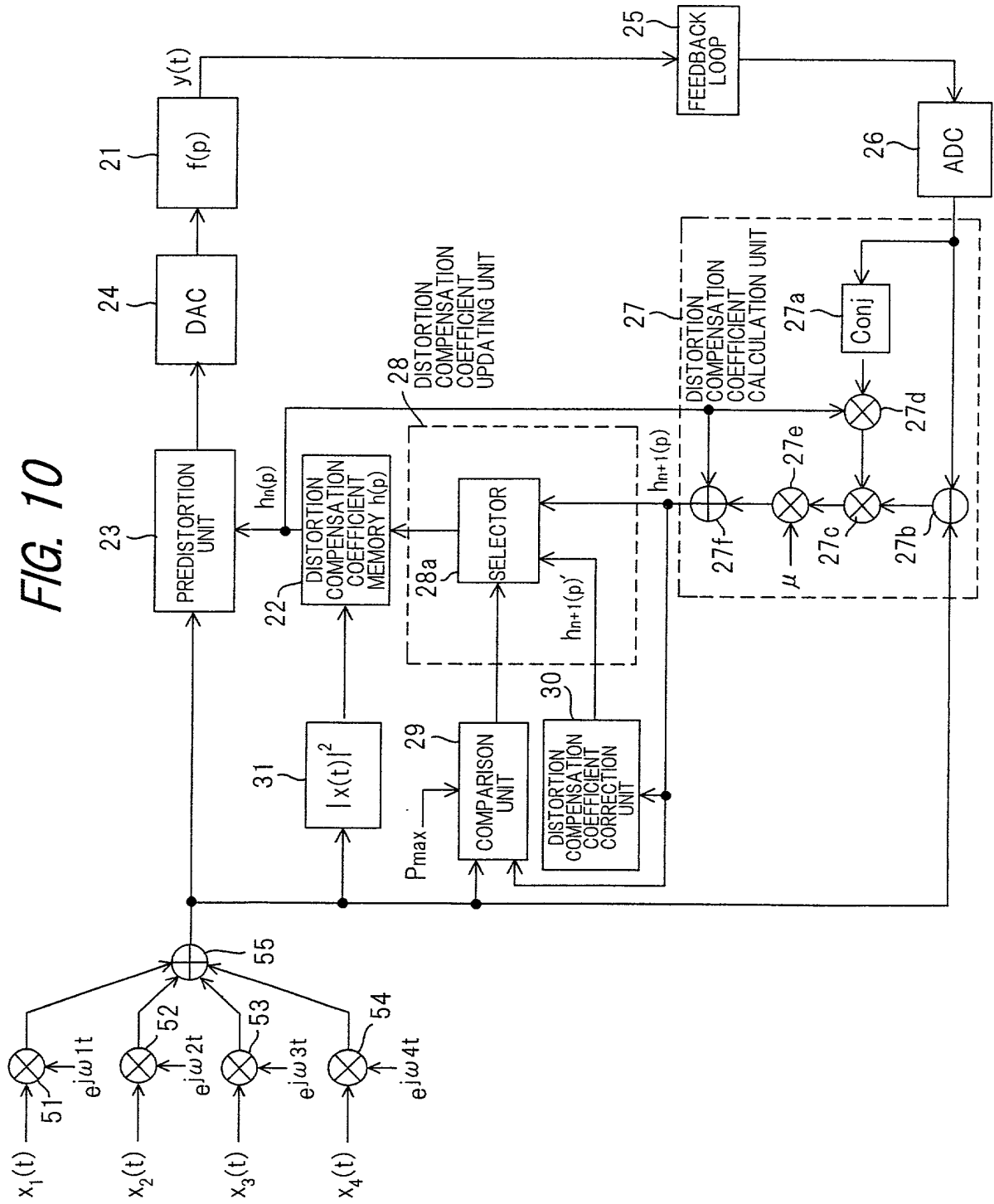


FIG. 11

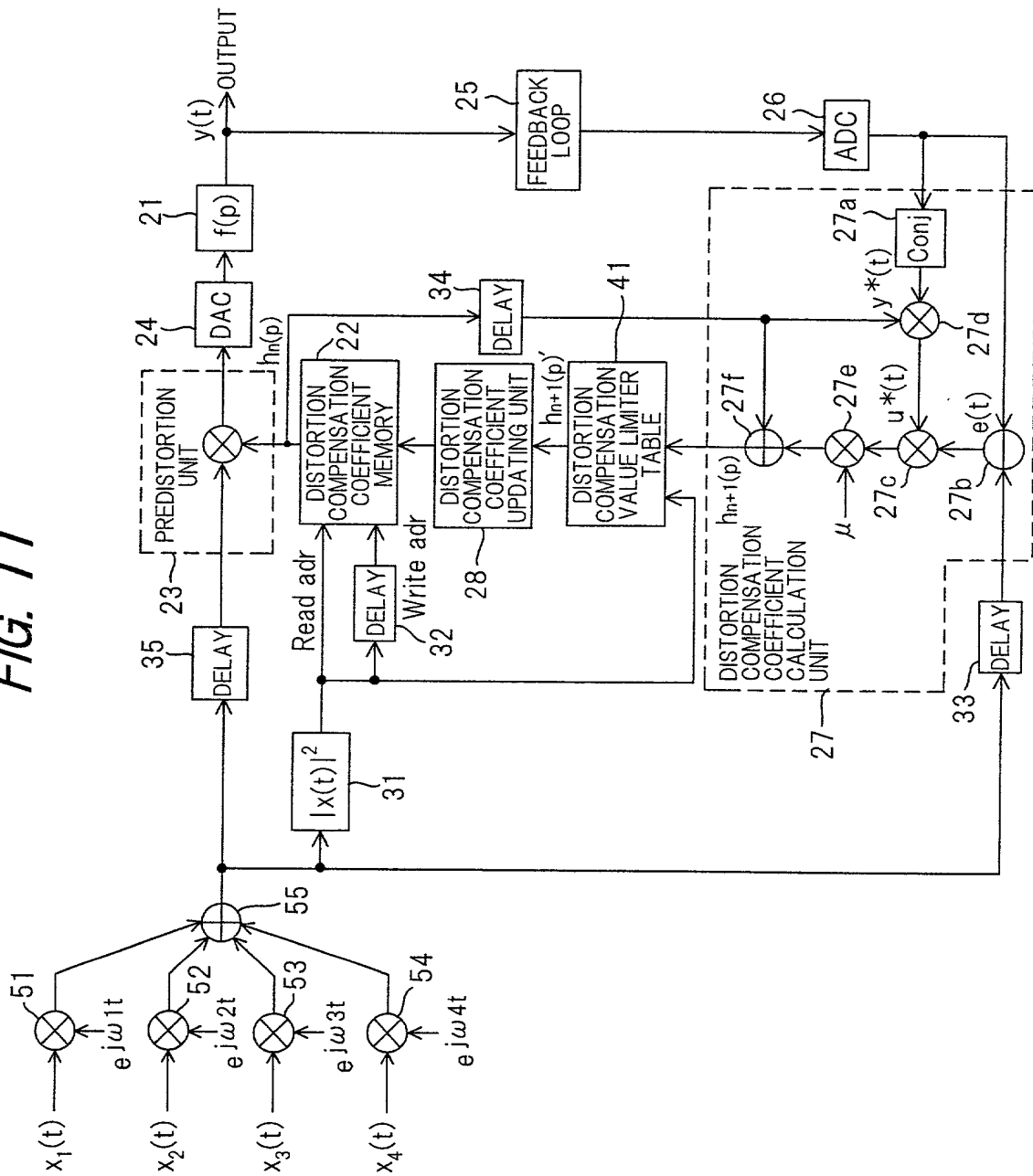


FIG. 12

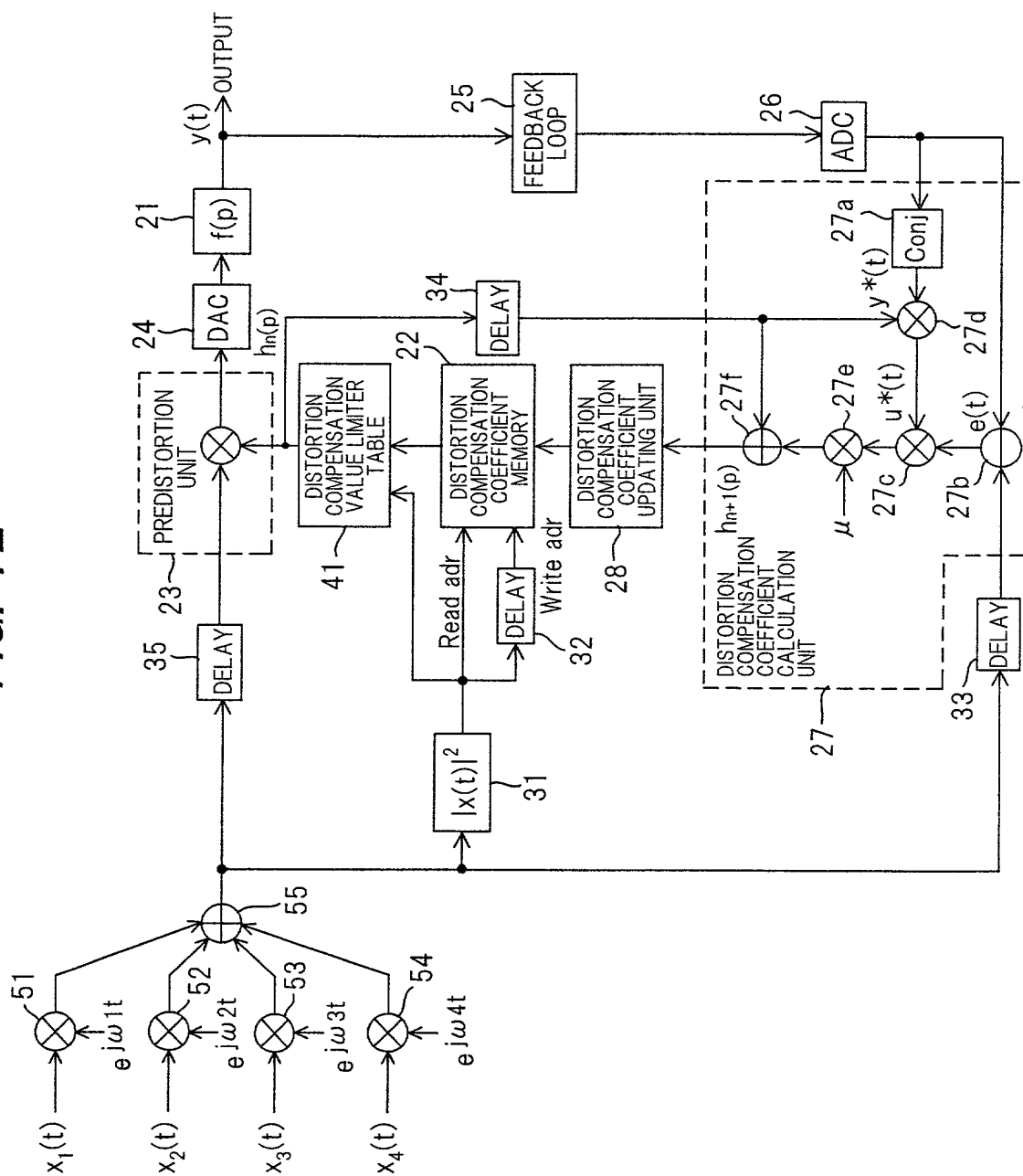
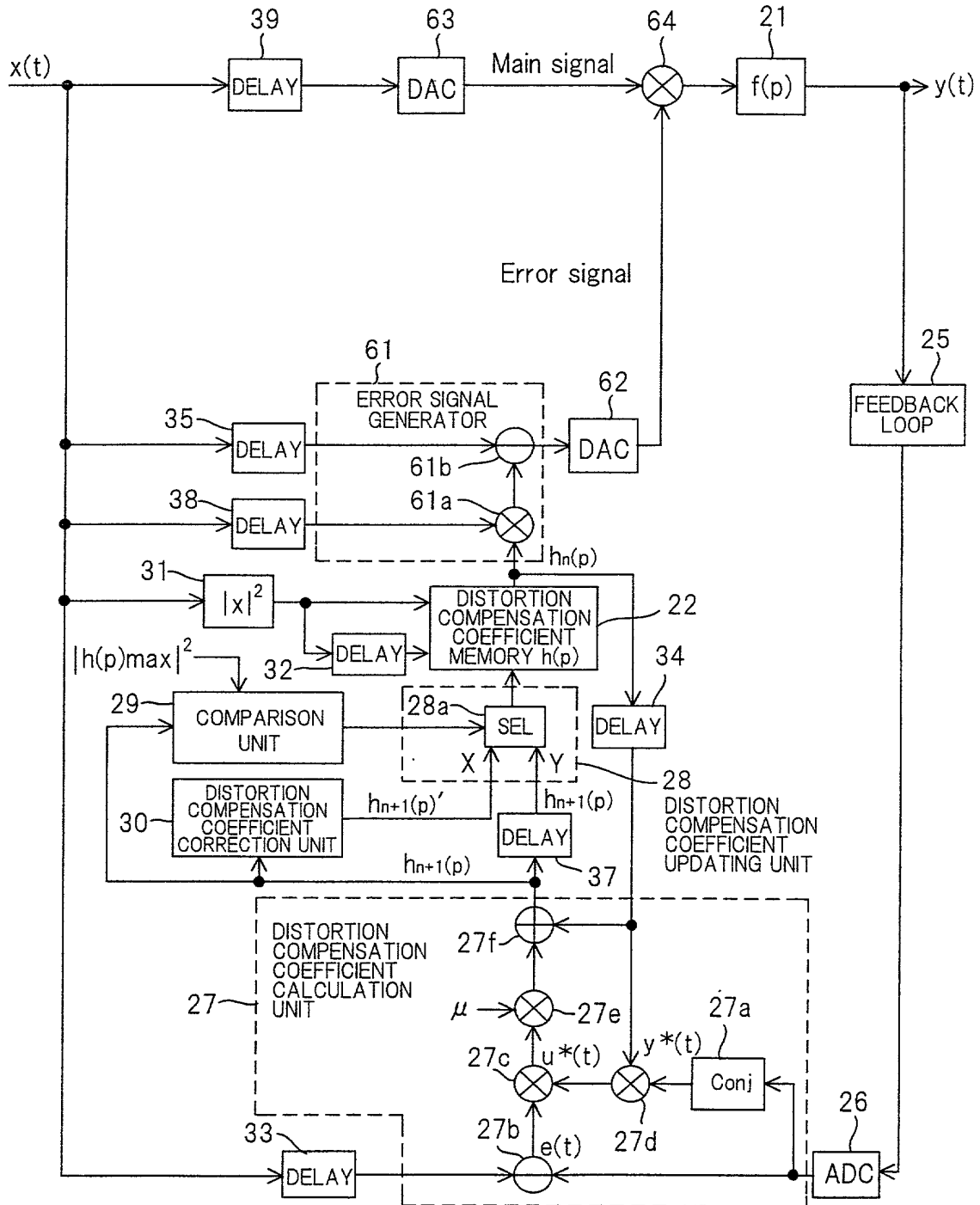


FIG. 13



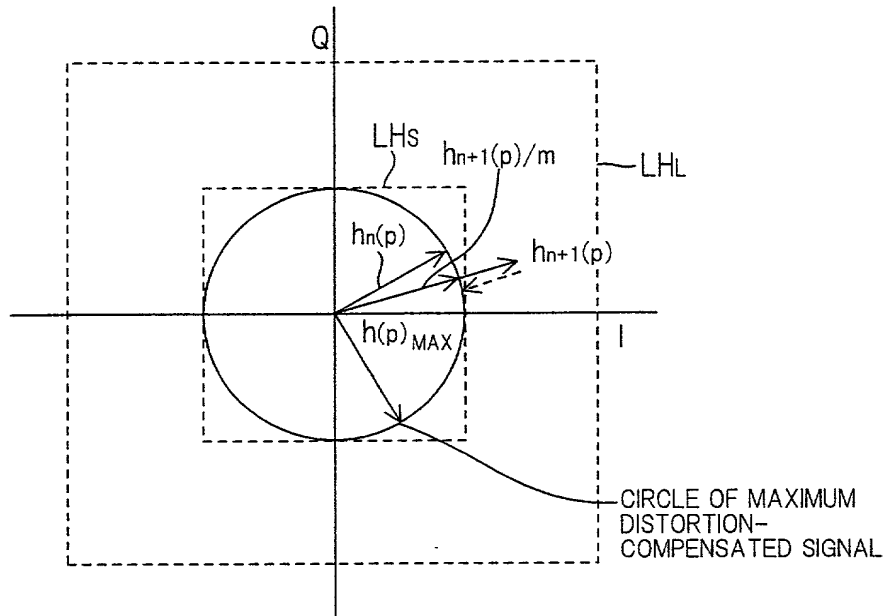
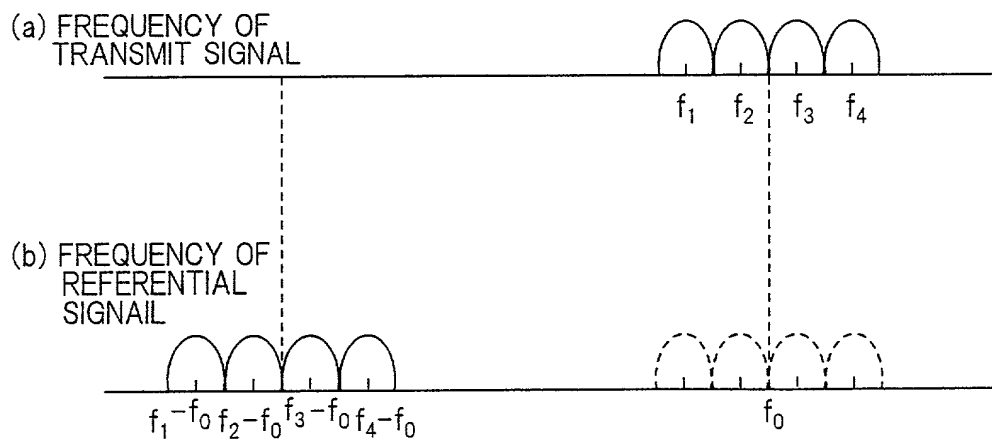
**FIG. 14****FIG. 19**

FIG. 15

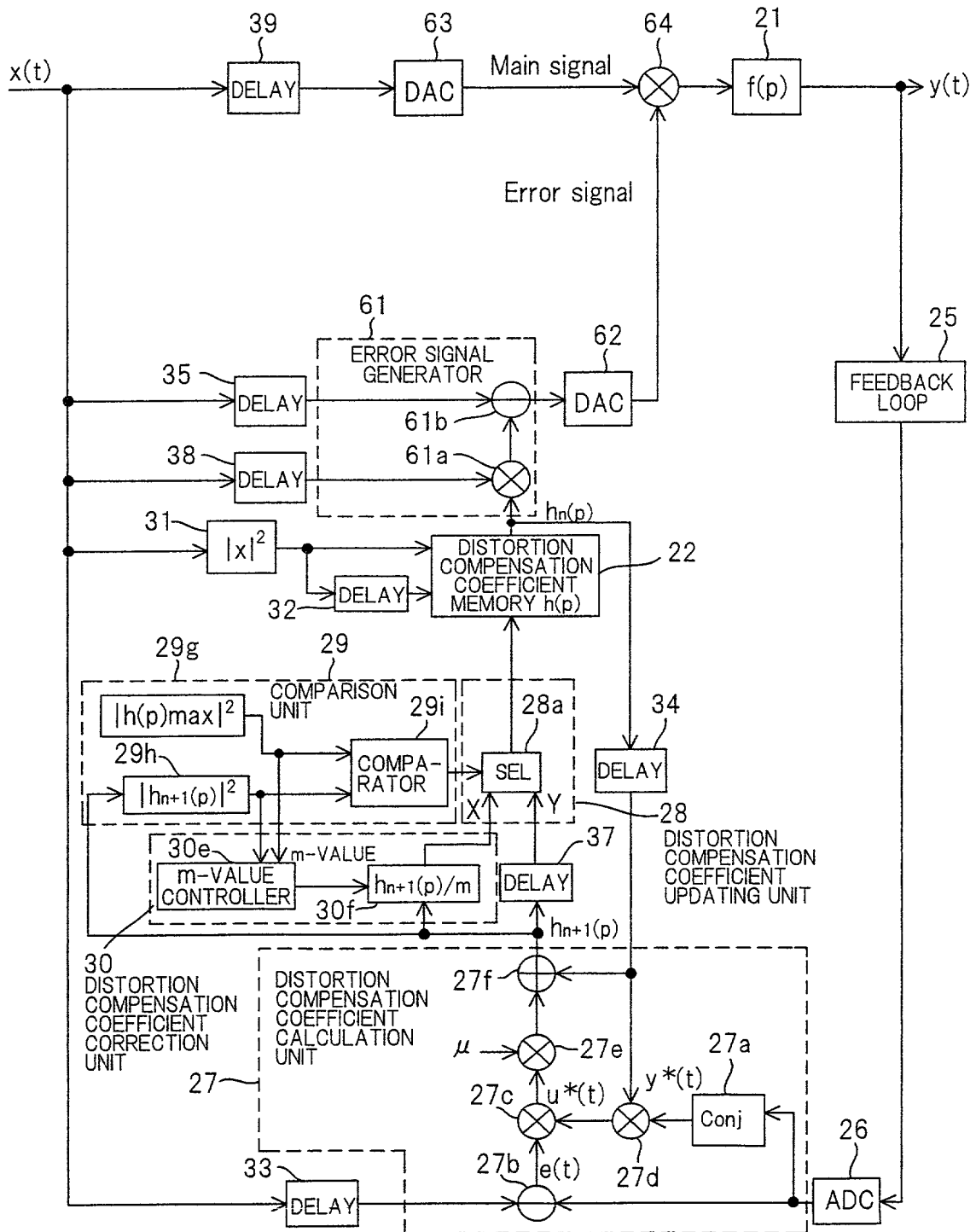


FIG. 16

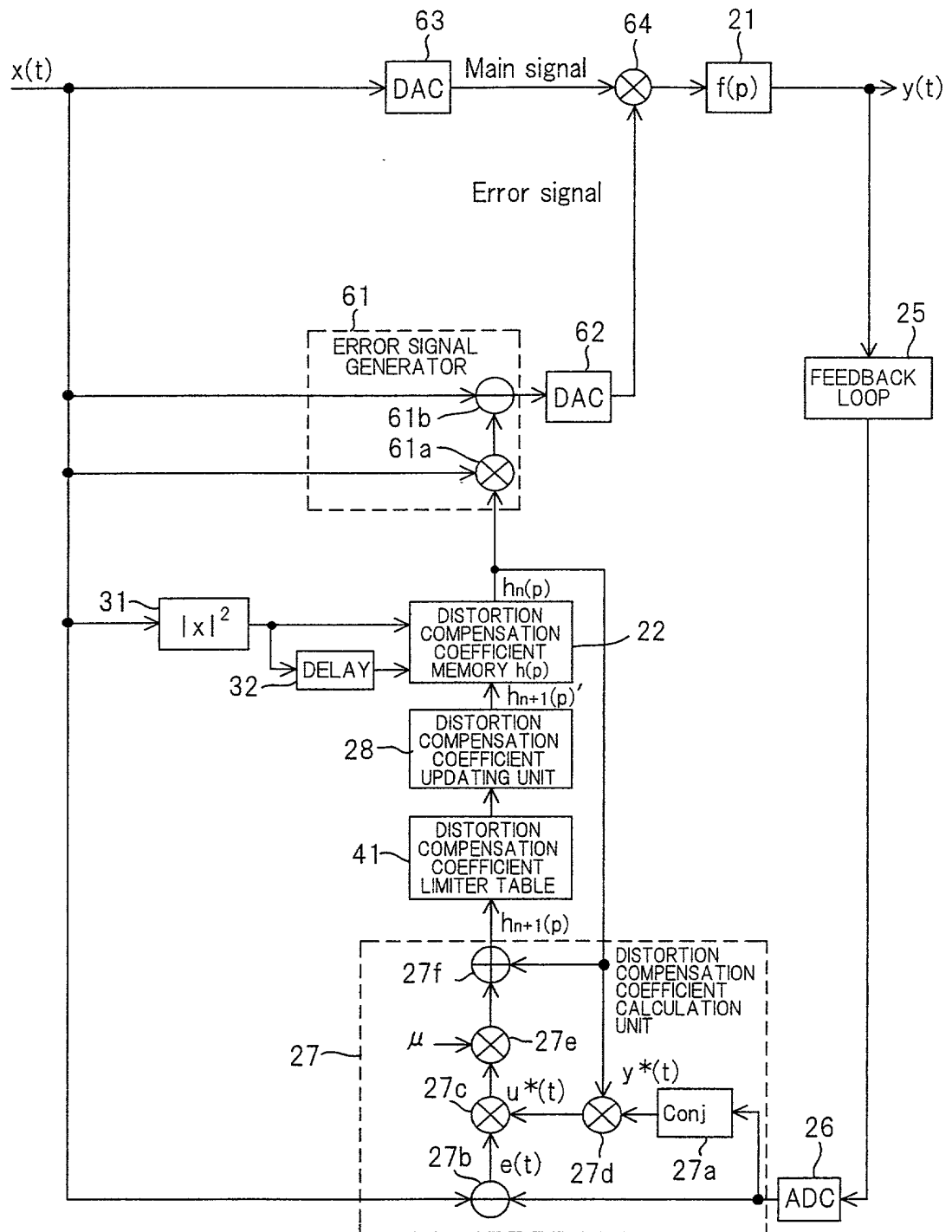


FIG. 17

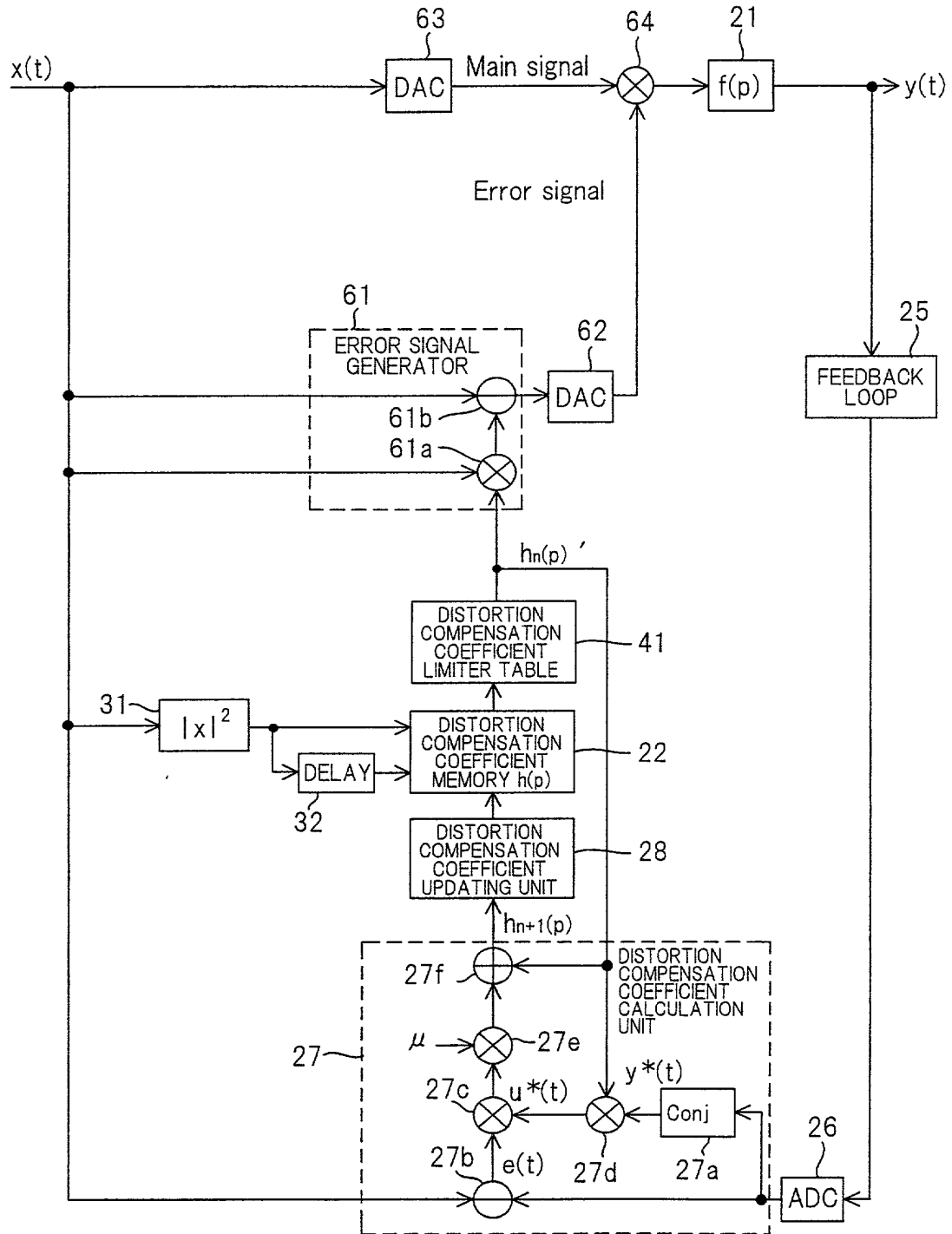
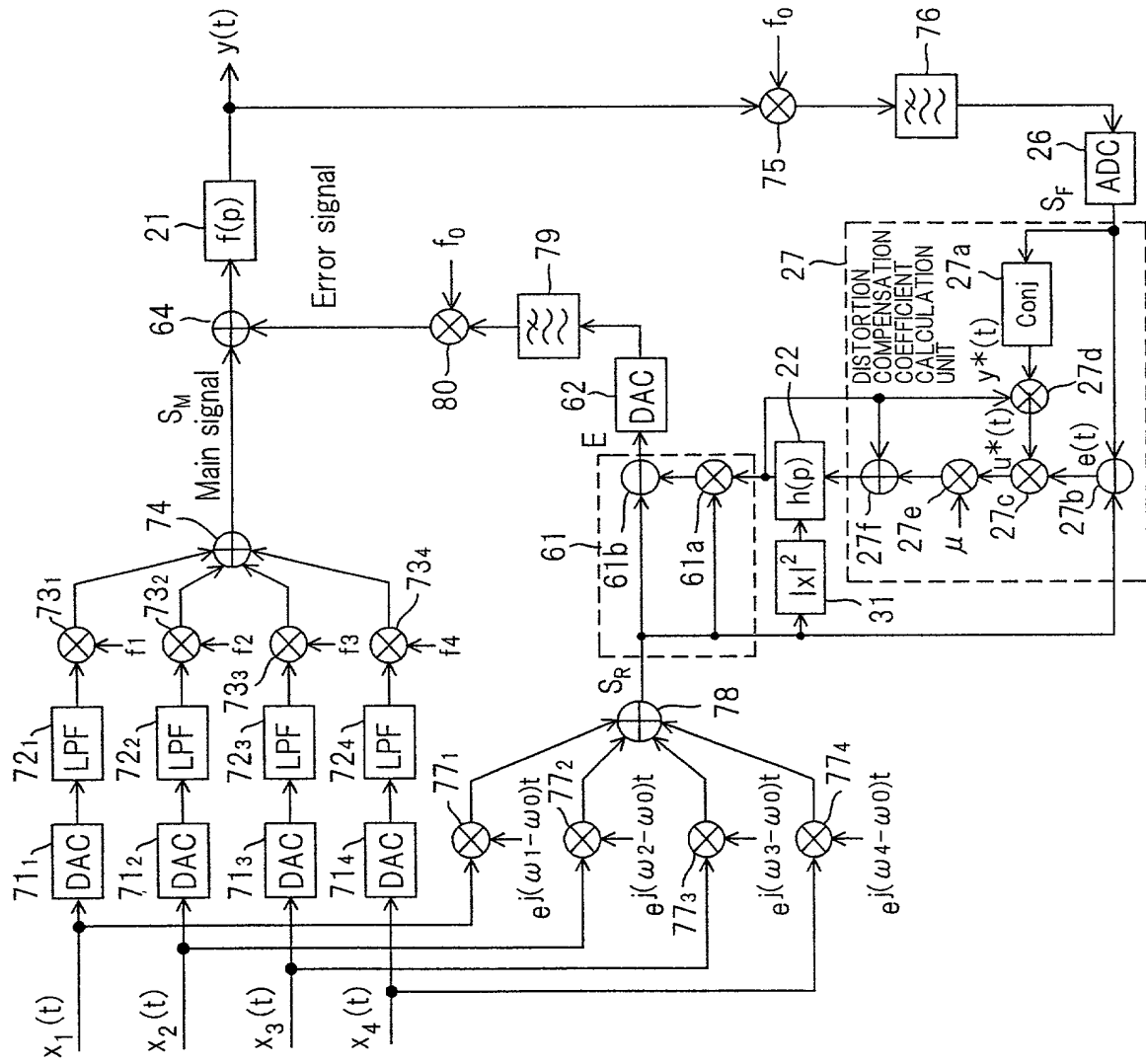
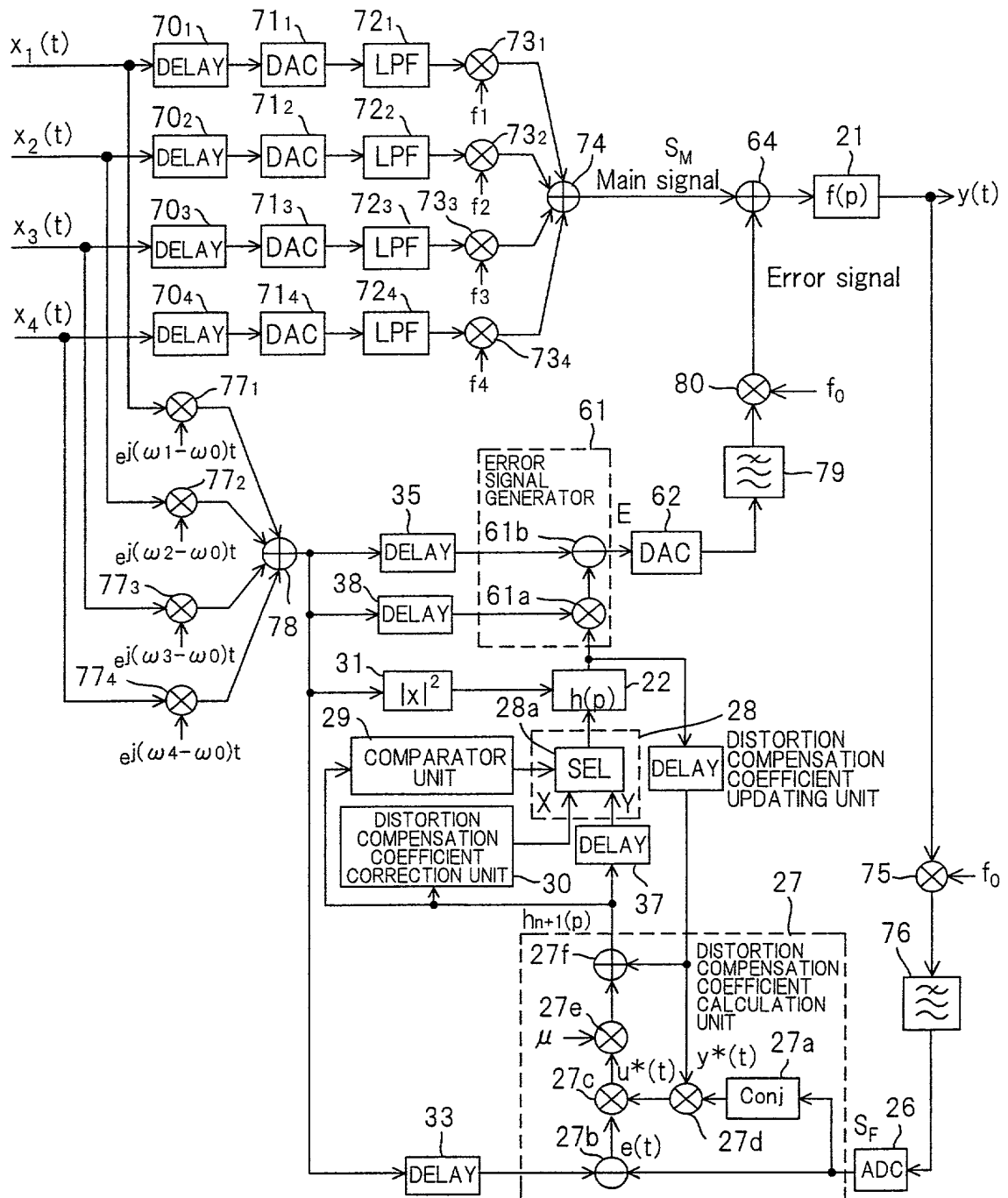




FIG. 18





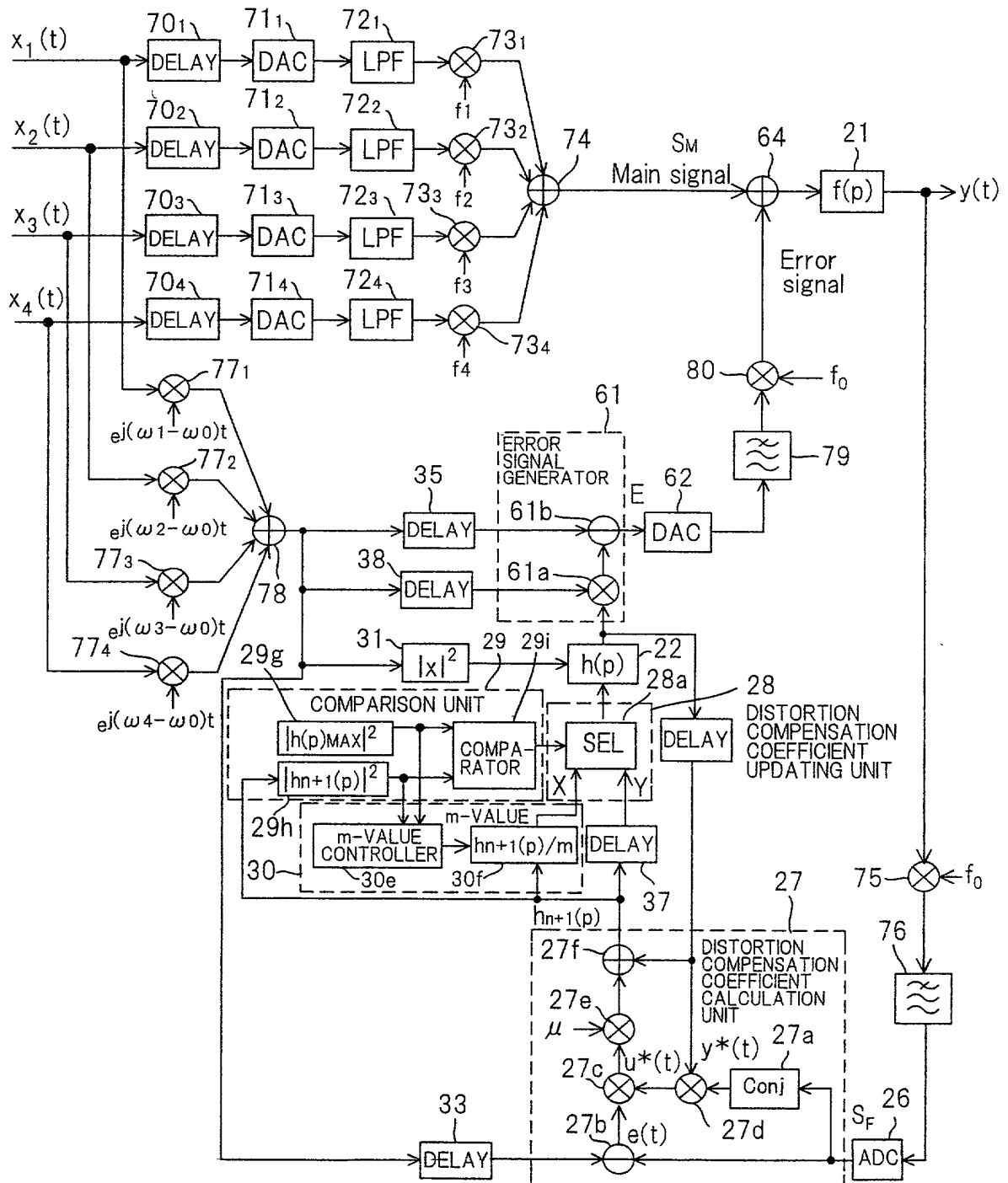
[illegible]

FIG. 22

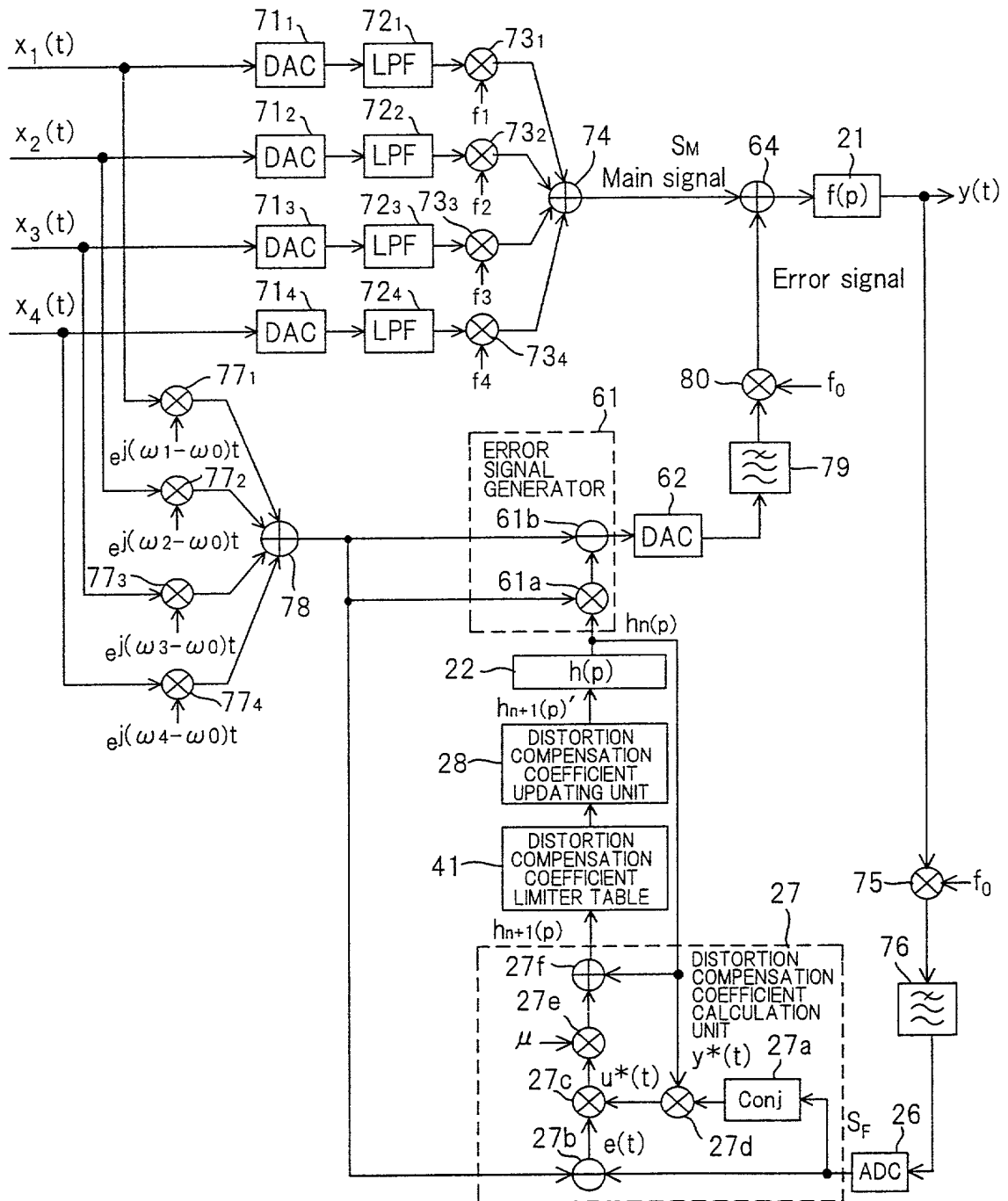


FIG. 23

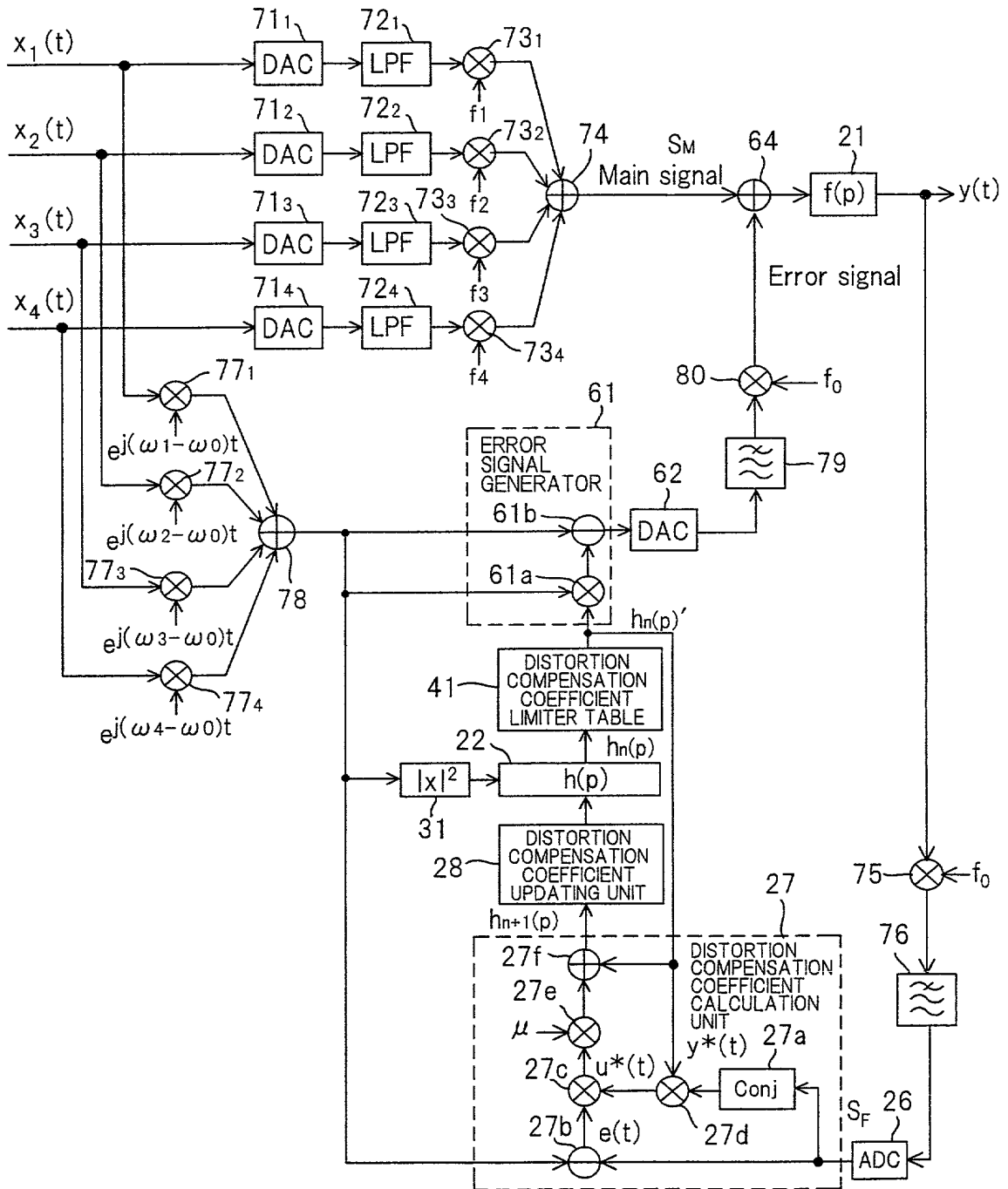
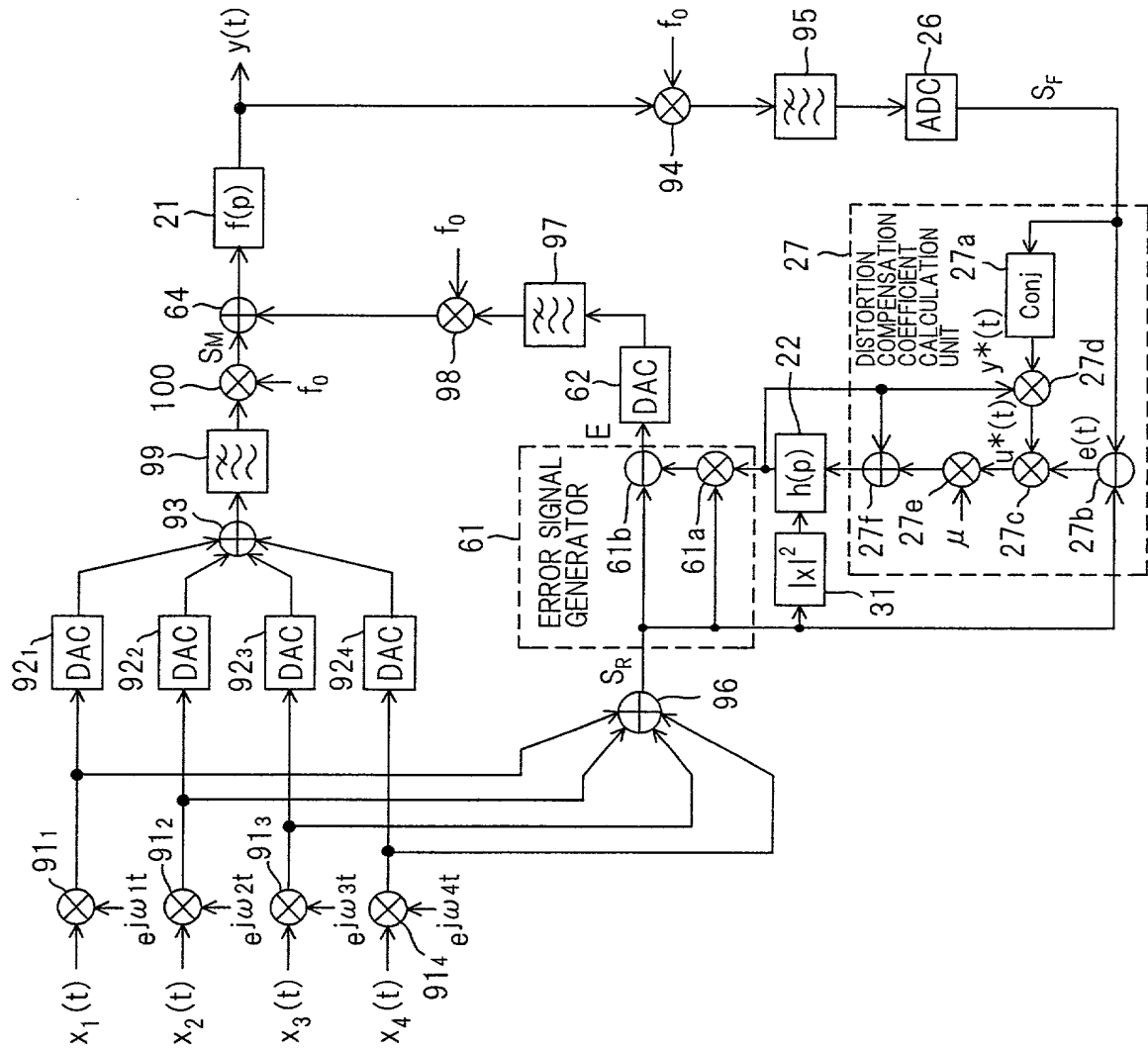


FIG. 24



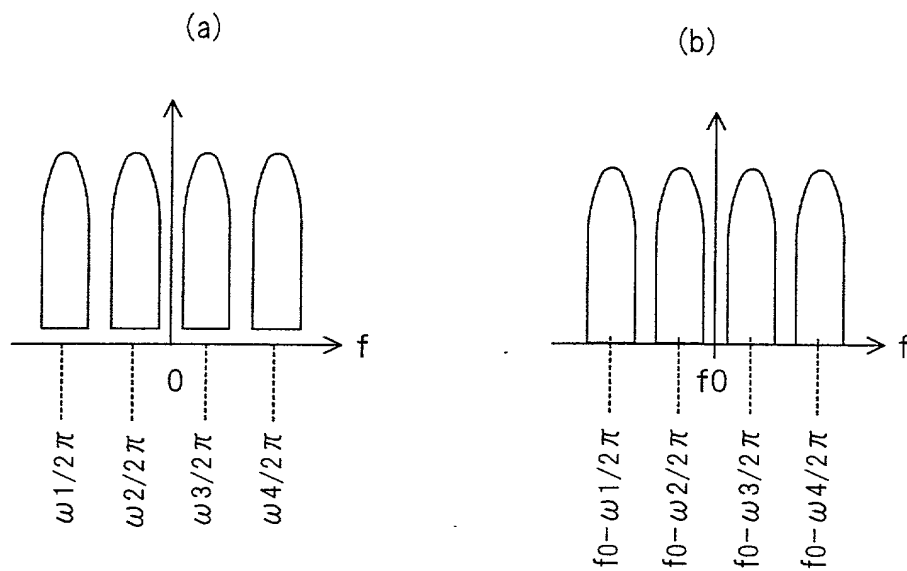
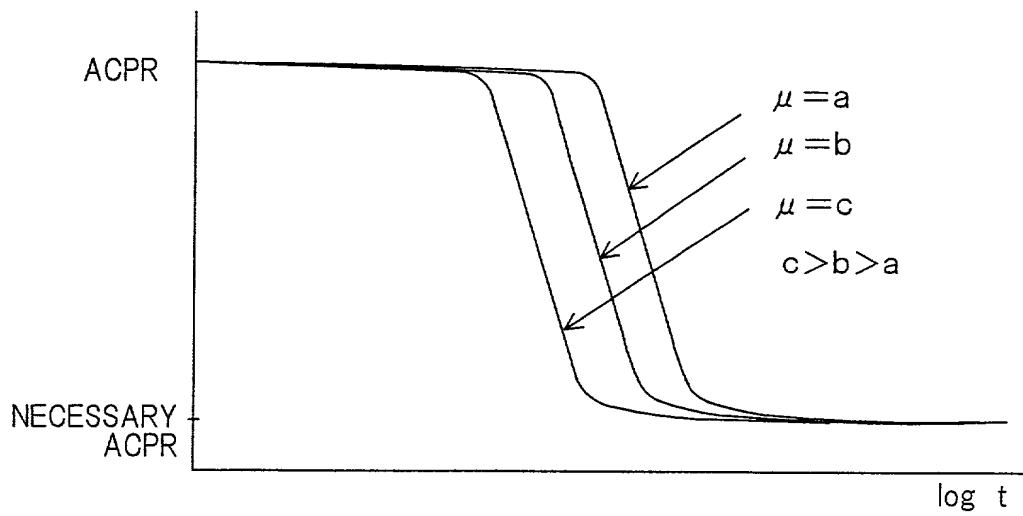
**FIG. 25****FIG. 40**

FIG. 26

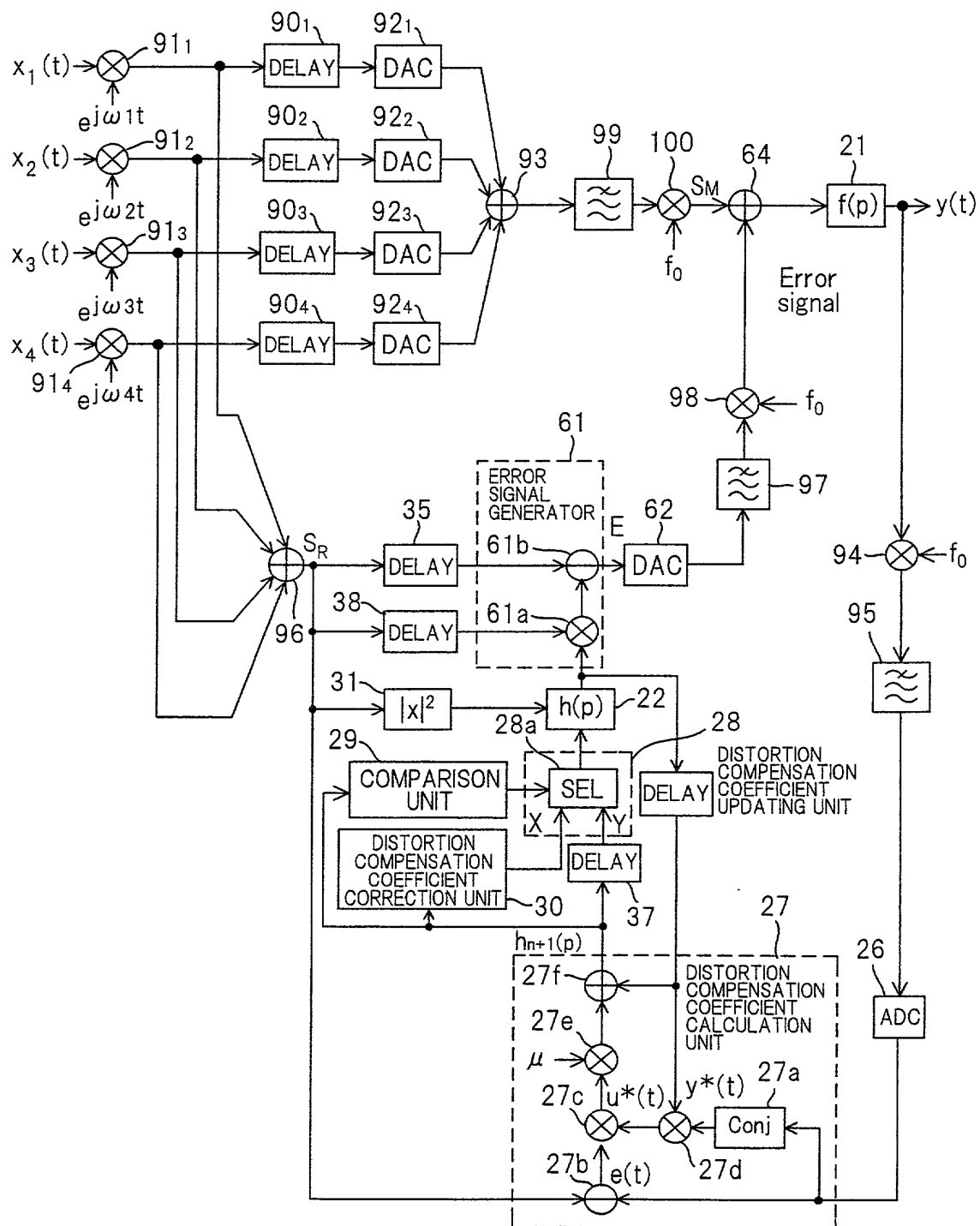




FIG. 27

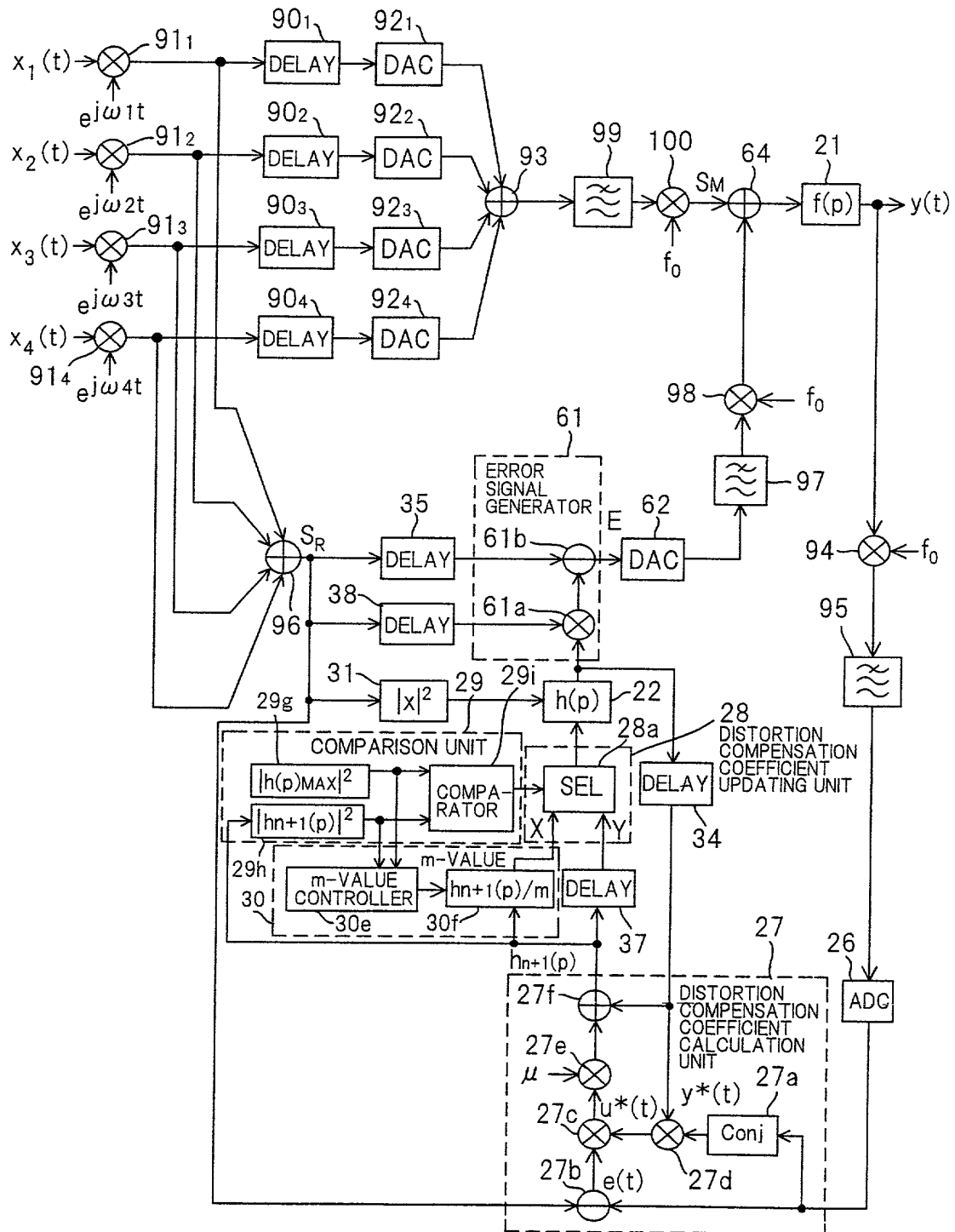


FIG. 28

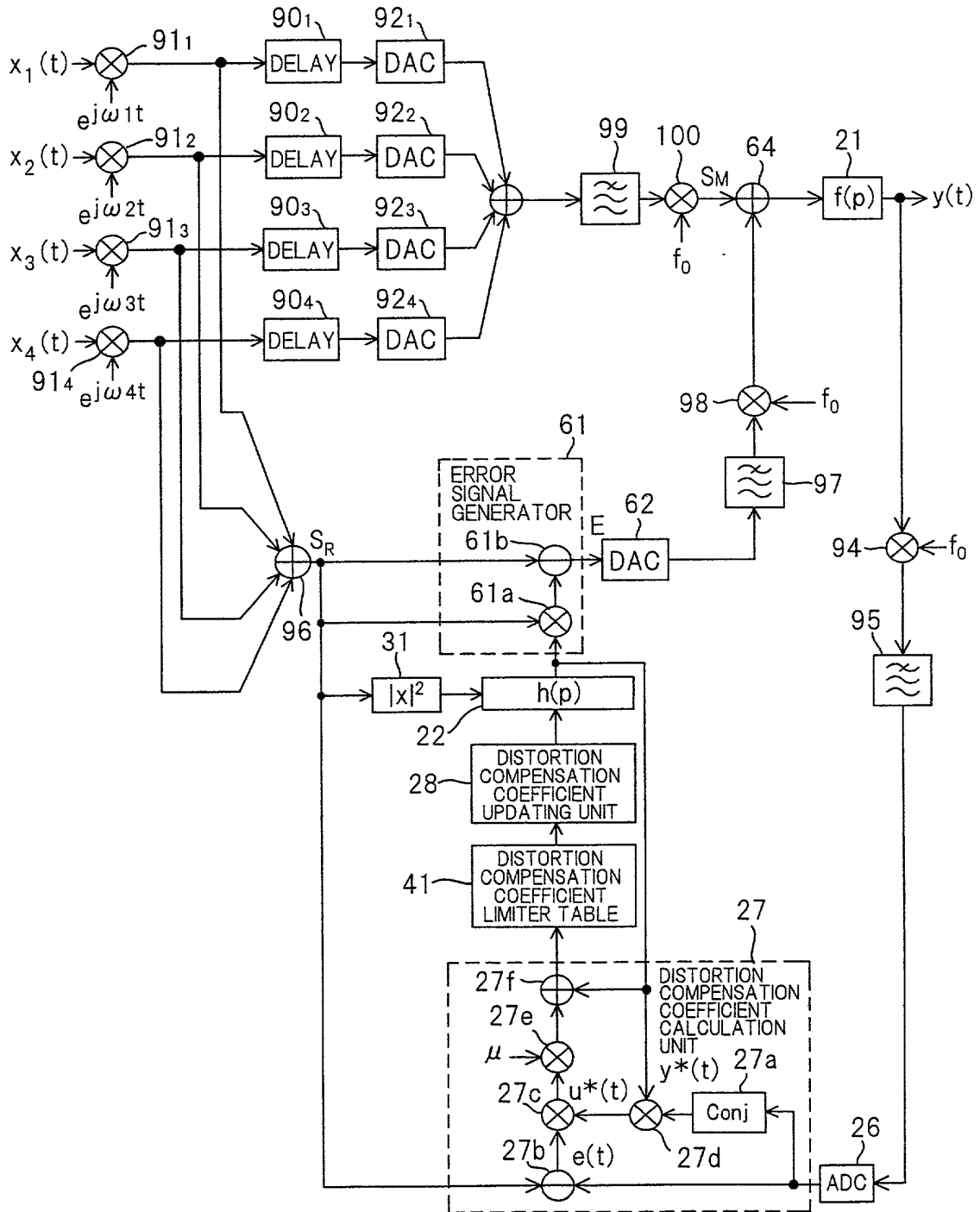


FIG. 29

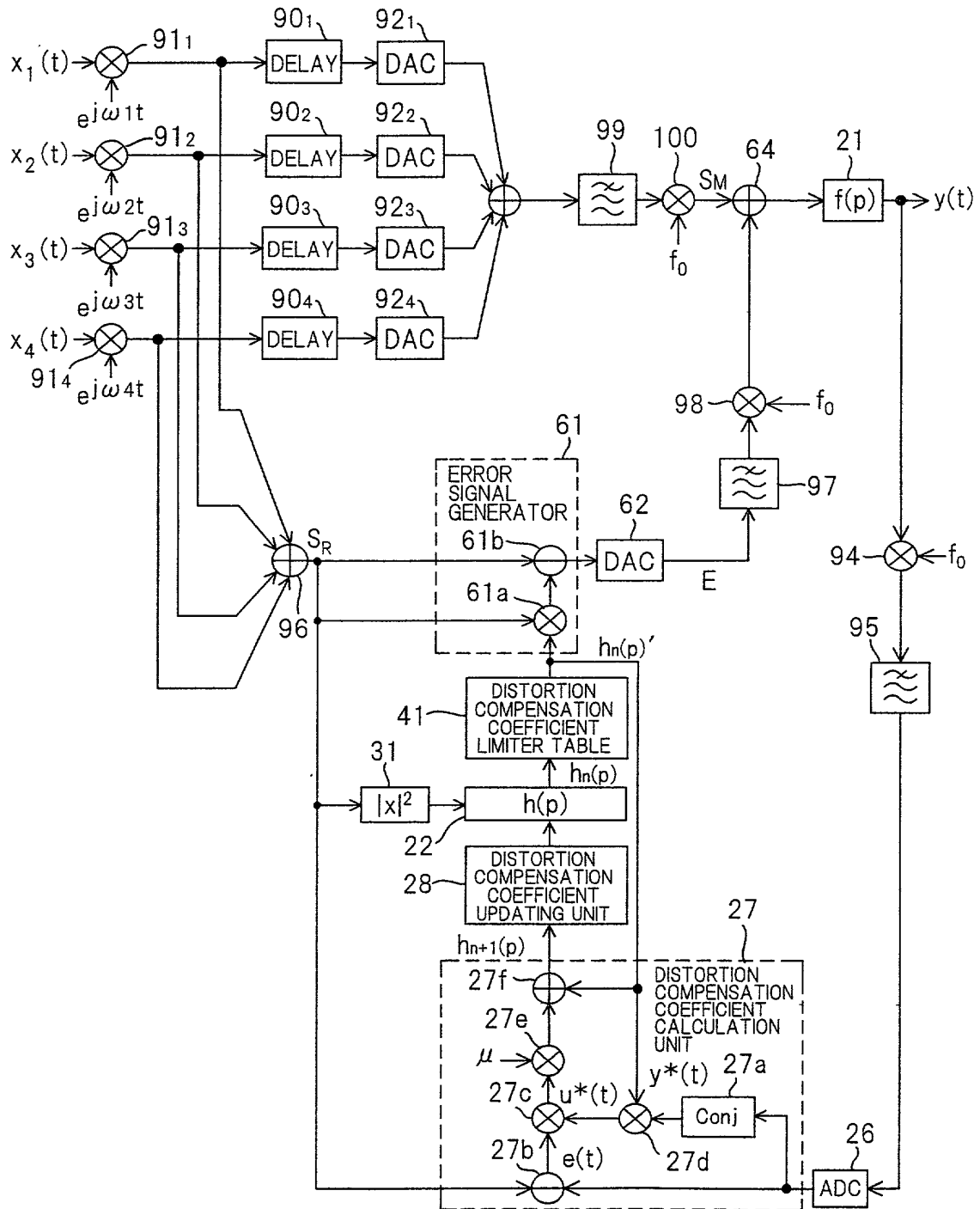
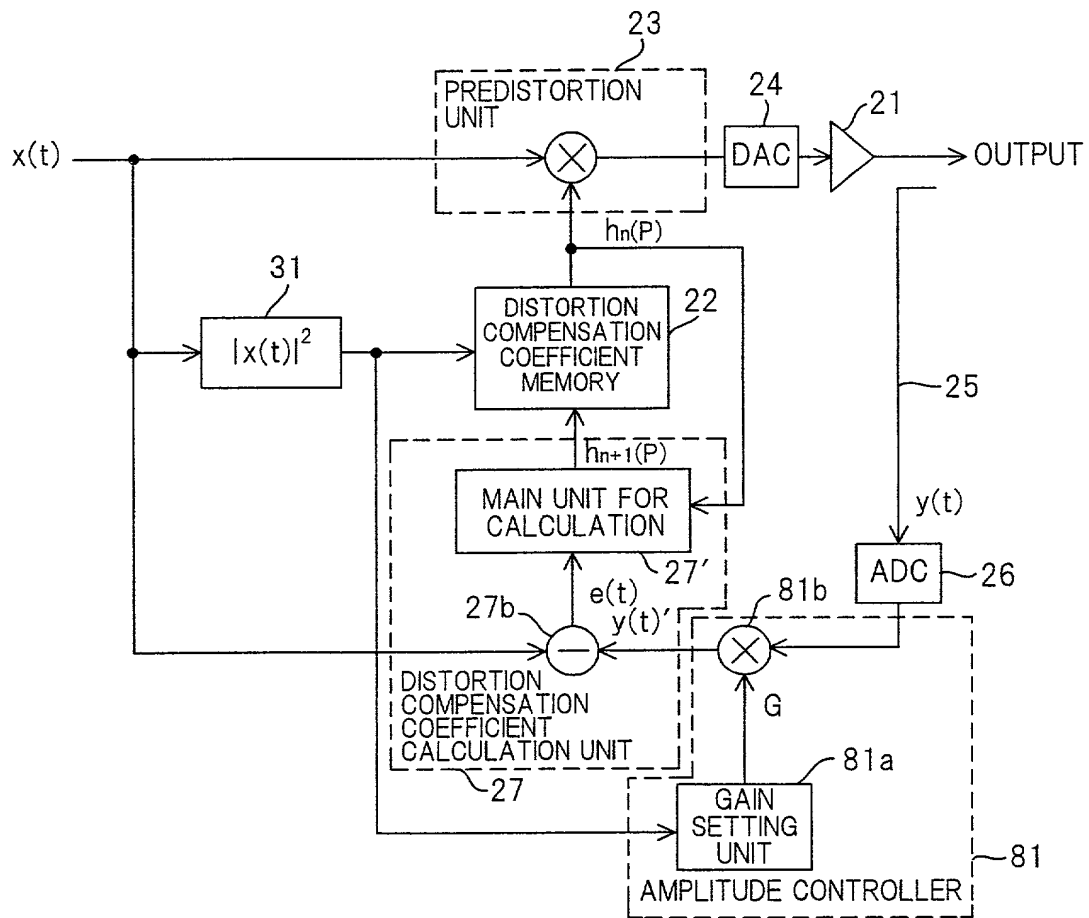


FIG. 30



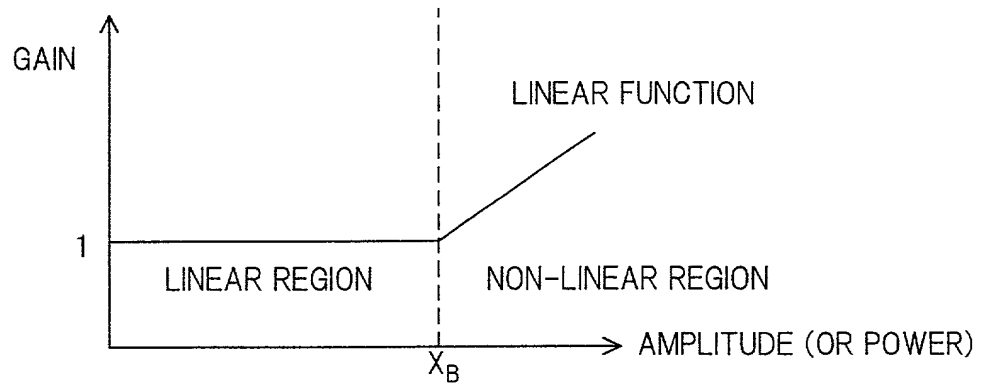
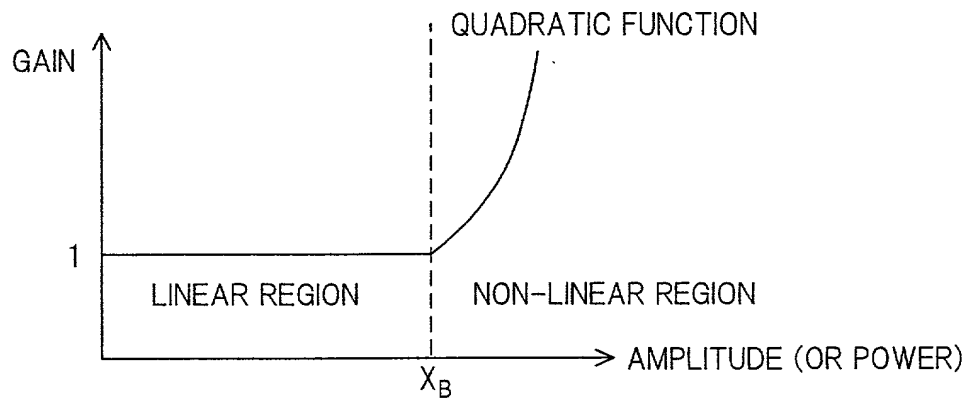
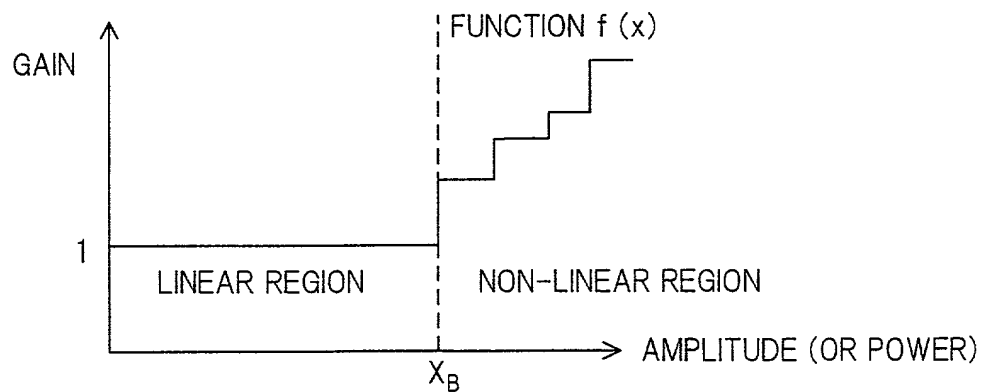
**FIG. 31A****FIG. 31B****FIG. 31C**

FIG. 32

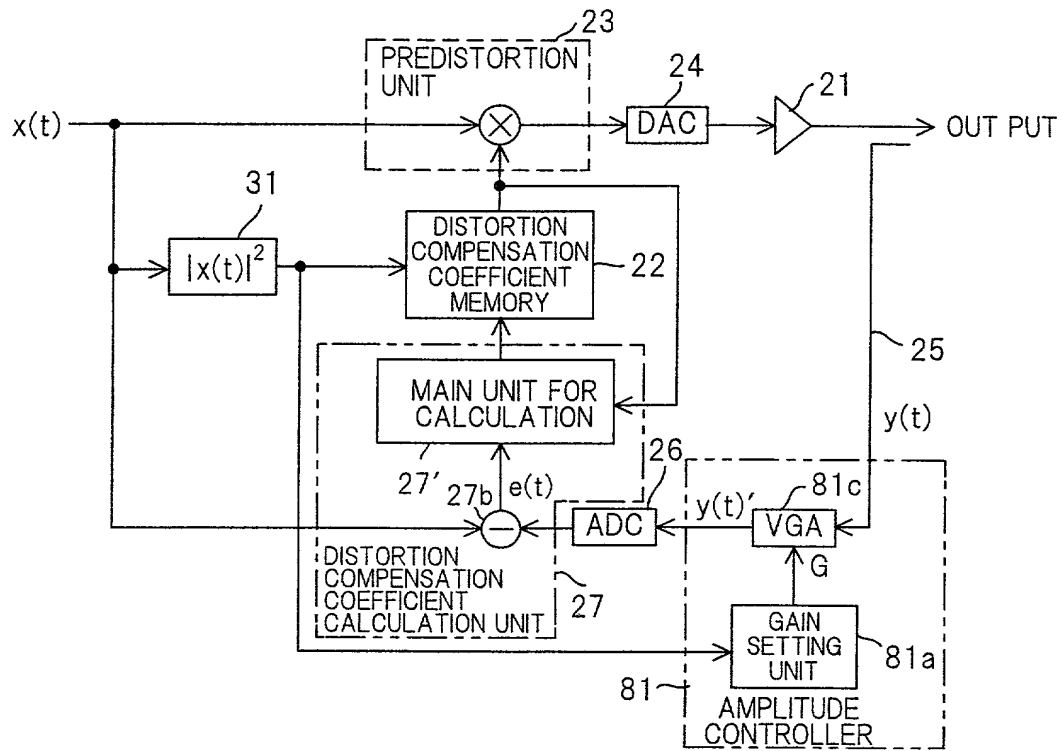


FIG. 33

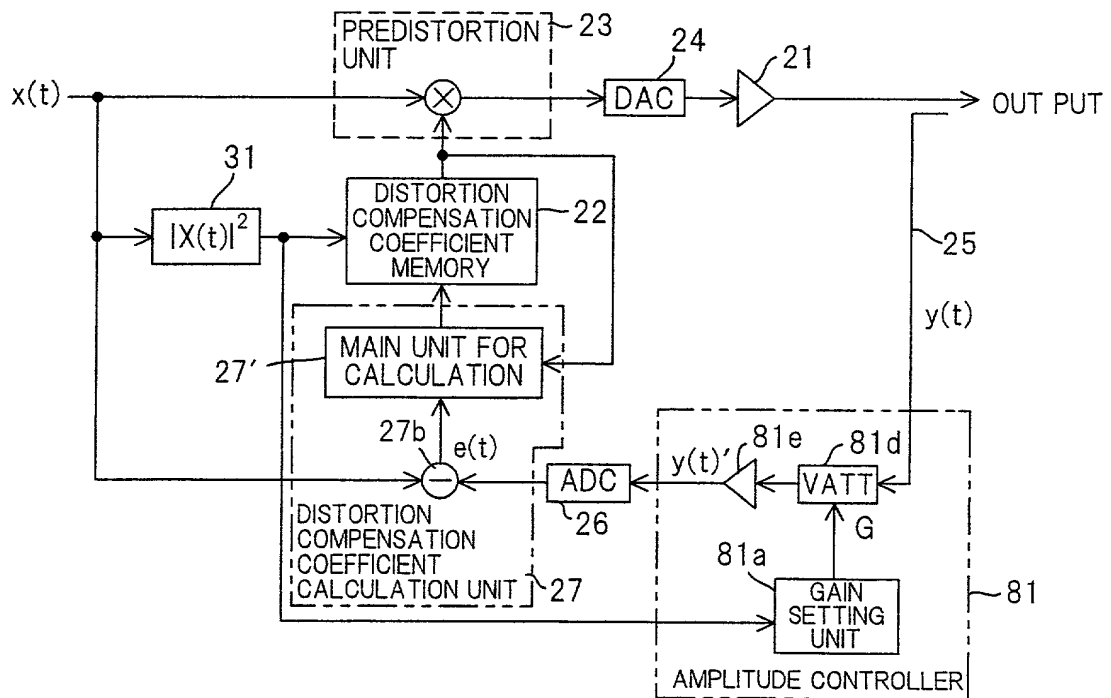


FIG. 34

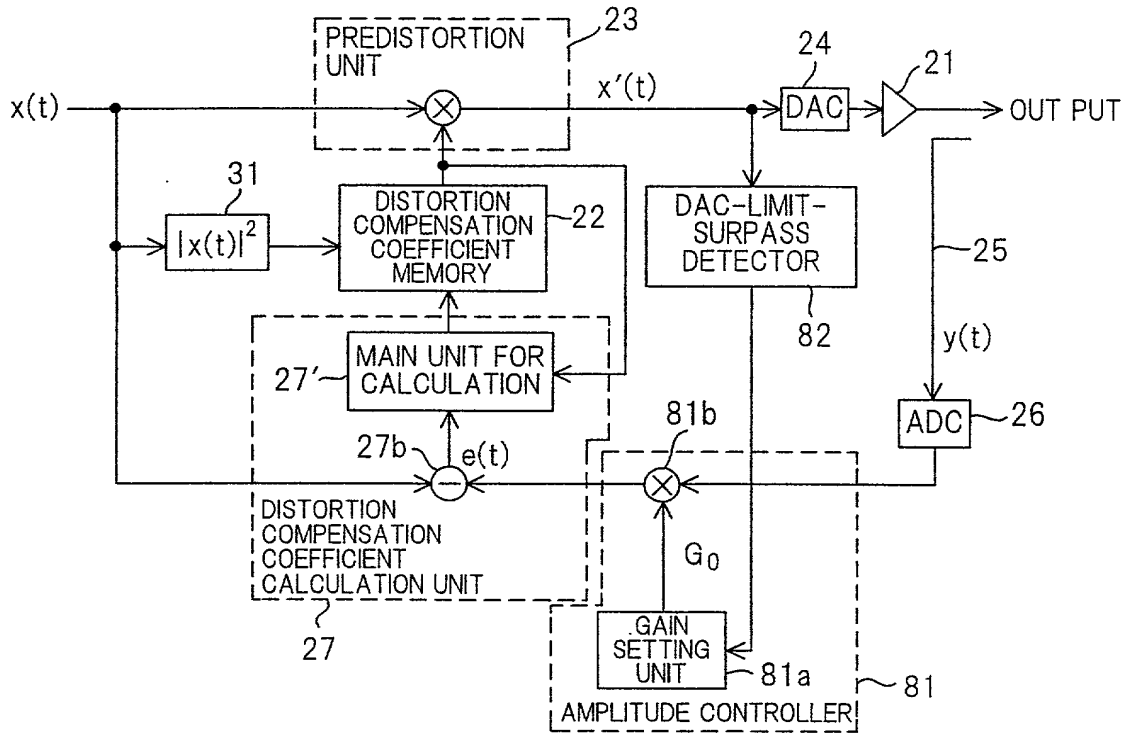


FIG. 35

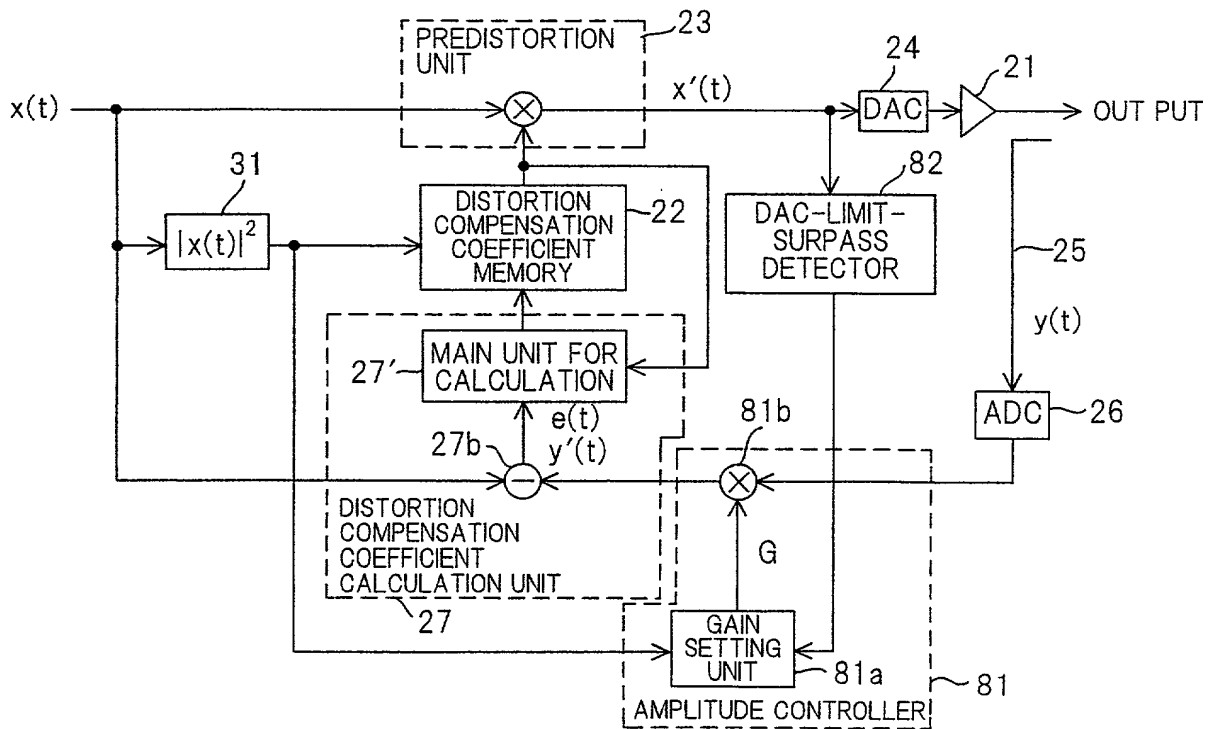






FIG. 37

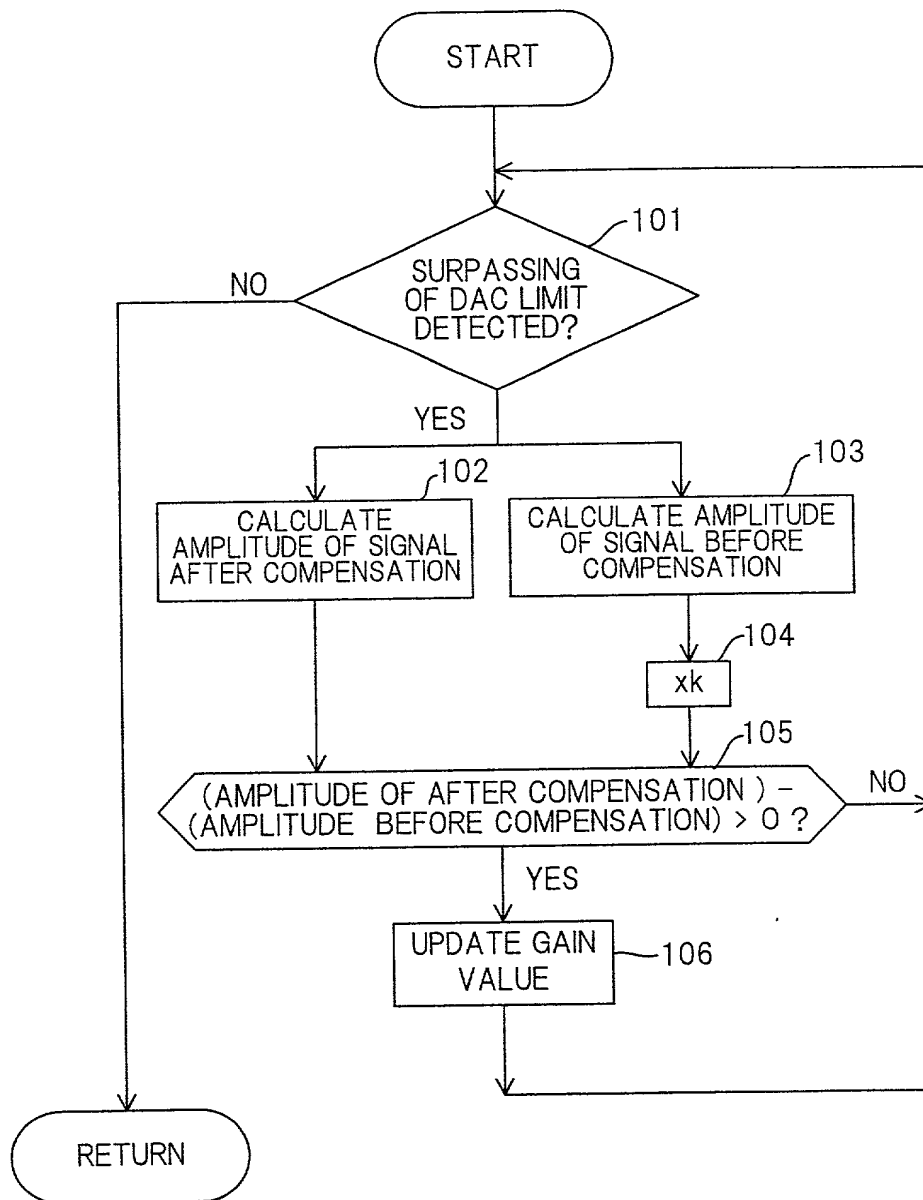


FIG. 38

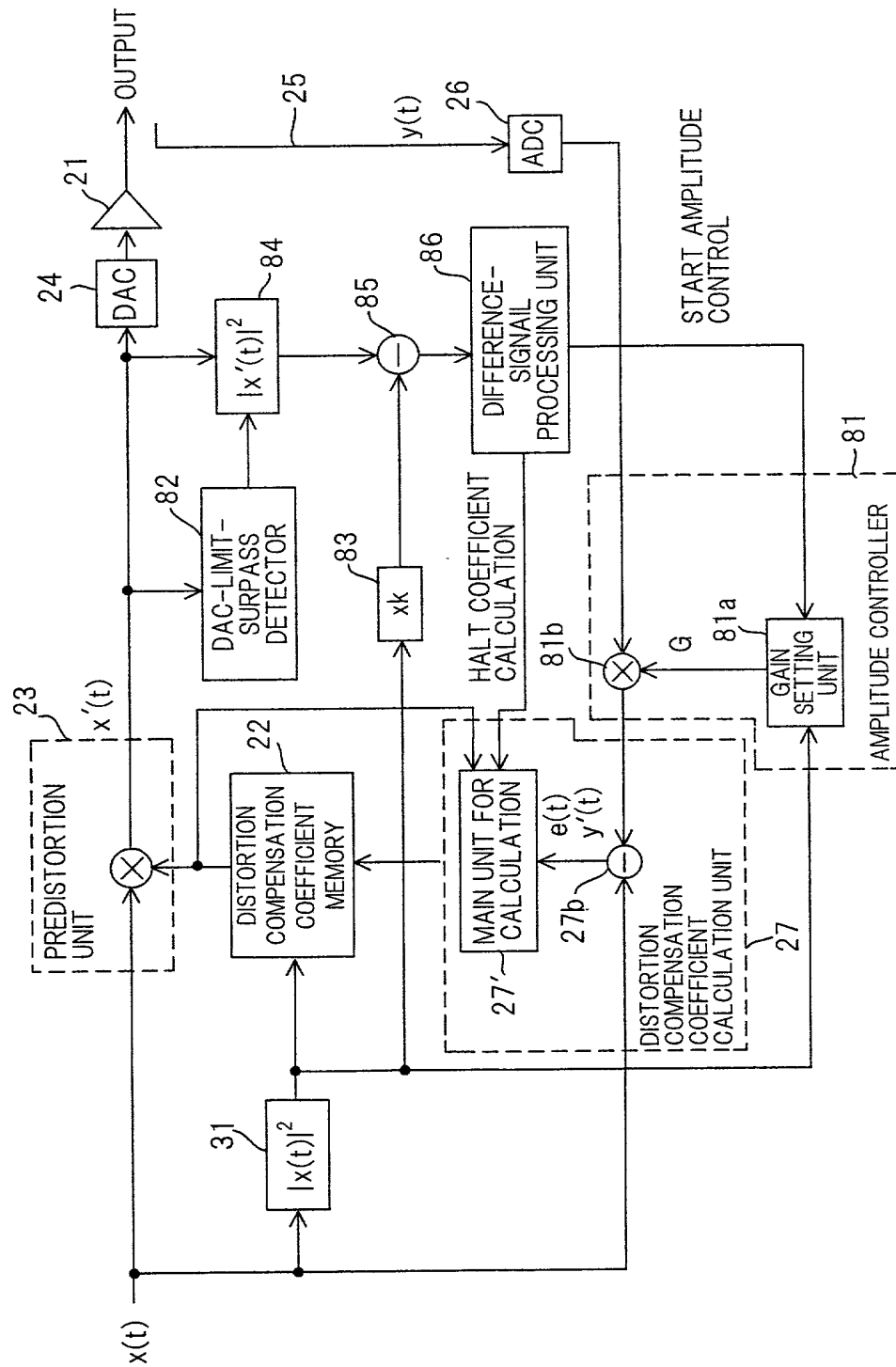
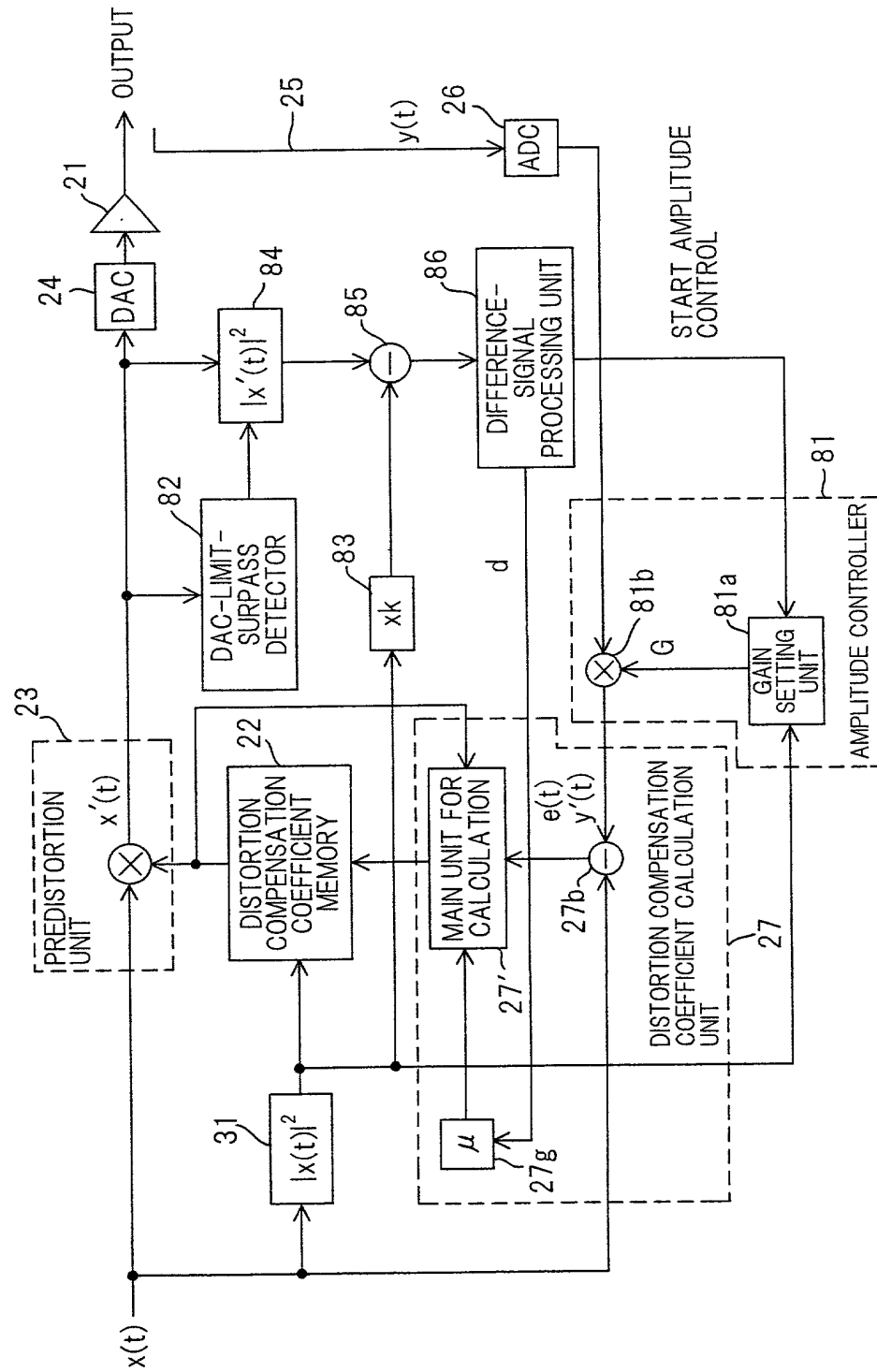


FIG. 39



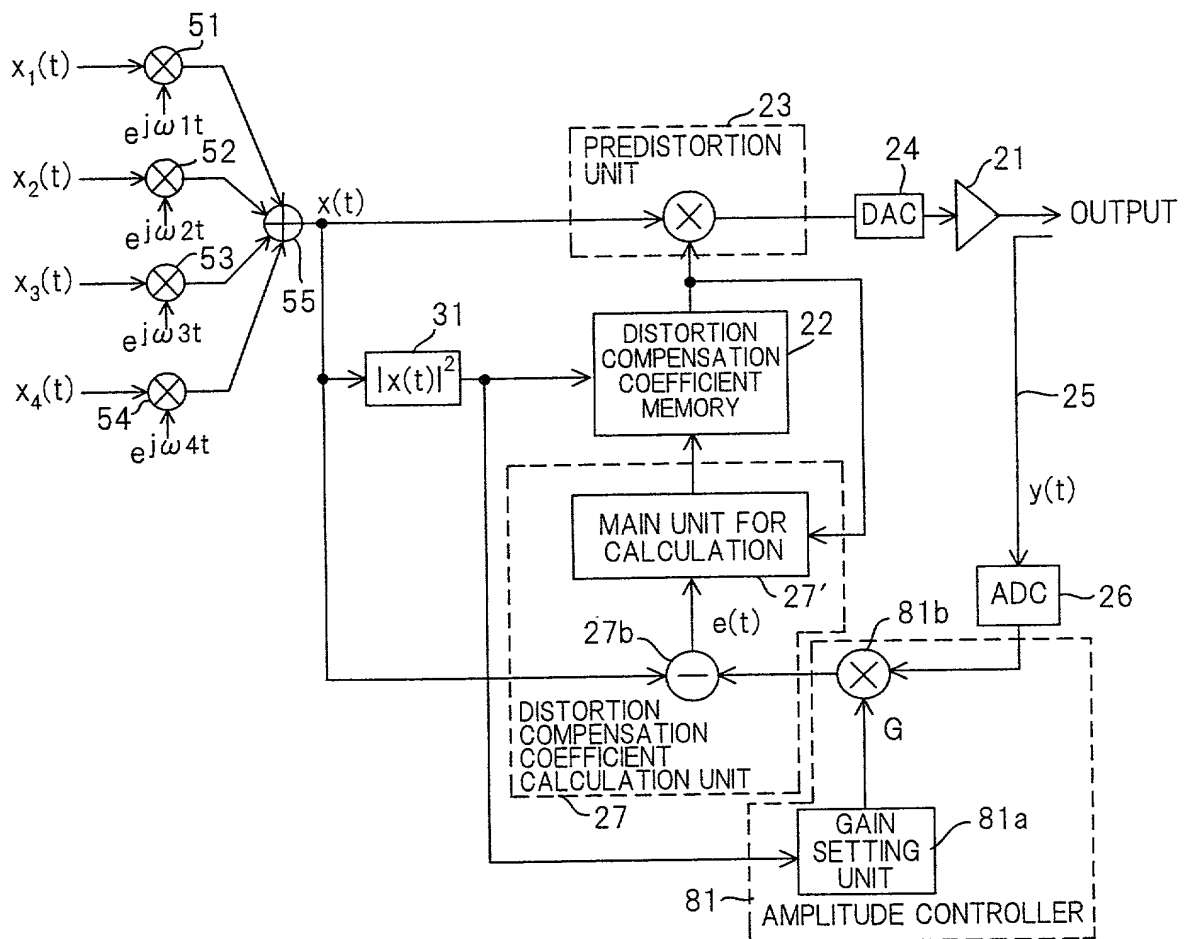
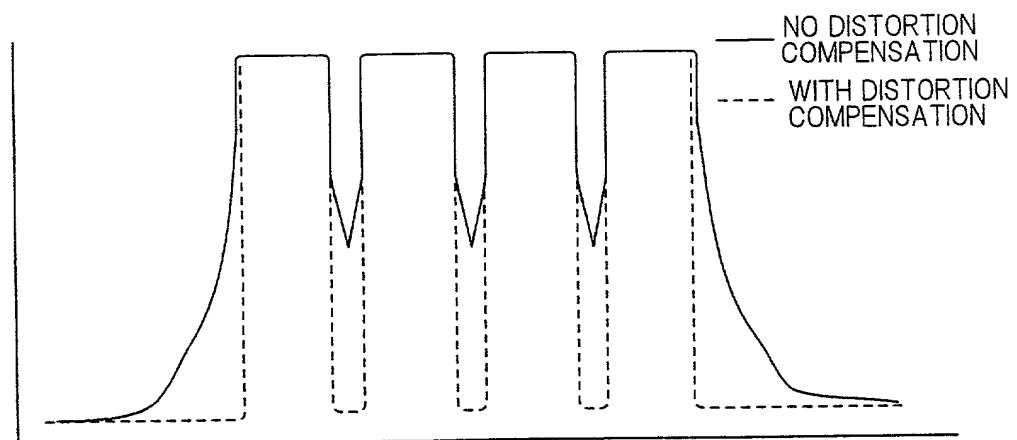
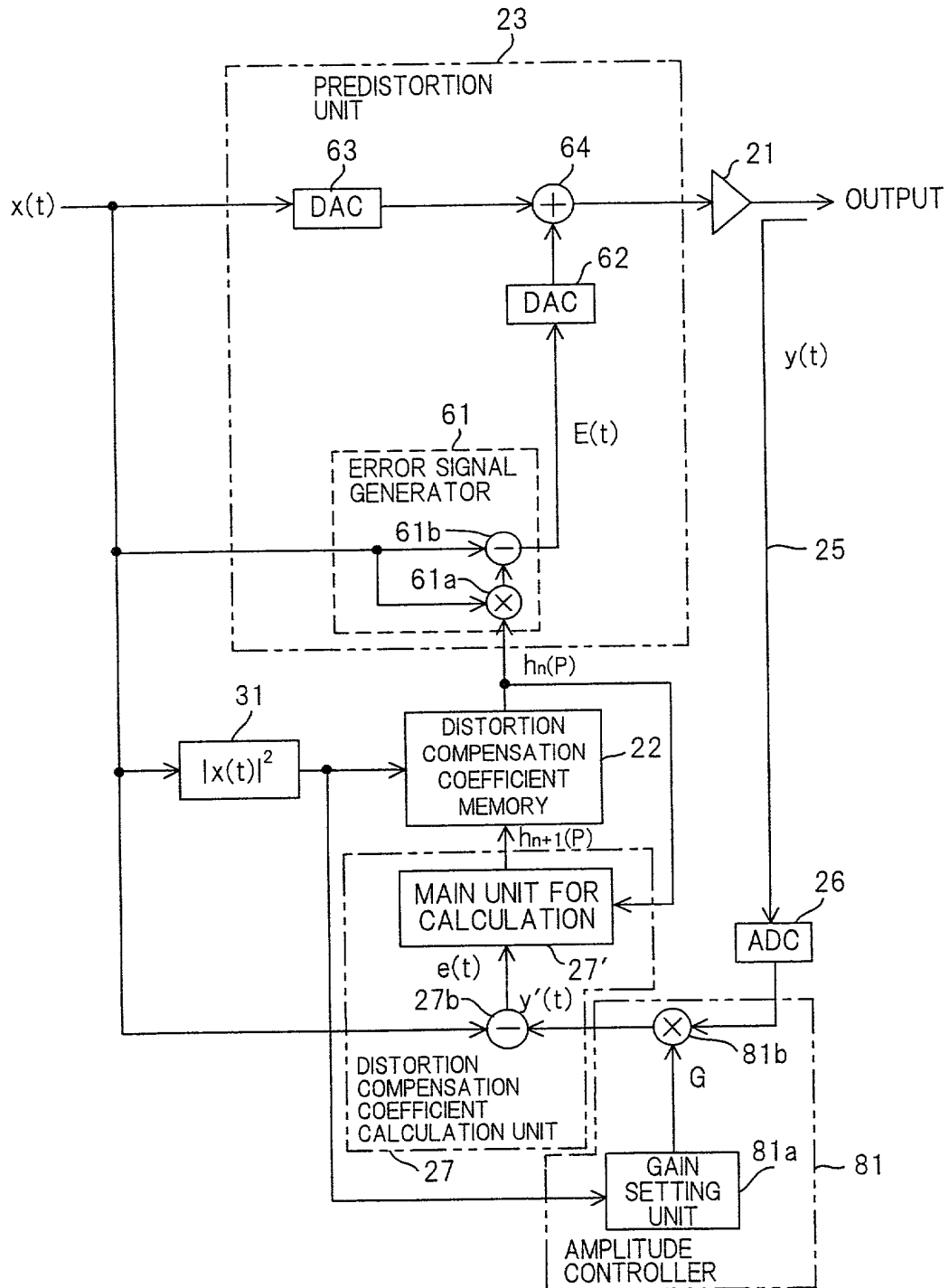
**FIG. 41****FIG. 42**

FIG. 43



**FIG. 44**

The diagram illustrates a distortion compensation system. It features an input section with four parallel channels (91<sub>1</sub> to 91<sub>4</sub>), each containing a DAC (92<sub>1</sub> to 92<sub>4</sub>) and a delay element (e<sup>jω1t</sup> to e<sup>jω4t</sup>). These signals are summed at 93 and filtered by BPF 99. The output y(t) is summed at 64 with a feedback signal from a DAC 62. The error signal E is generated by subtracting y(t) from the input sum at 61a and 61b. The error signal E is processed by a distortion compensation coefficient memory 22, which feeds into a main calculation unit 27' and a distortion compensation coefficient calculation unit 27. The main calculation unit 27' calculates the error signal e(t) and the distortion compensation coefficient G. The distortion compensation coefficient calculation unit 27 calculates the distortion compensation coefficient G from the error signal e(t) and the input signal x(t). The distortion compensation coefficient G is then used to calculate the distortion compensation coefficient G' at 81a, which is fed back to the input section via a gain setting unit 81 and an amplitude controller. The output y(t) is also fed back to the input section via a gain setting unit 81 and an amplitude controller.

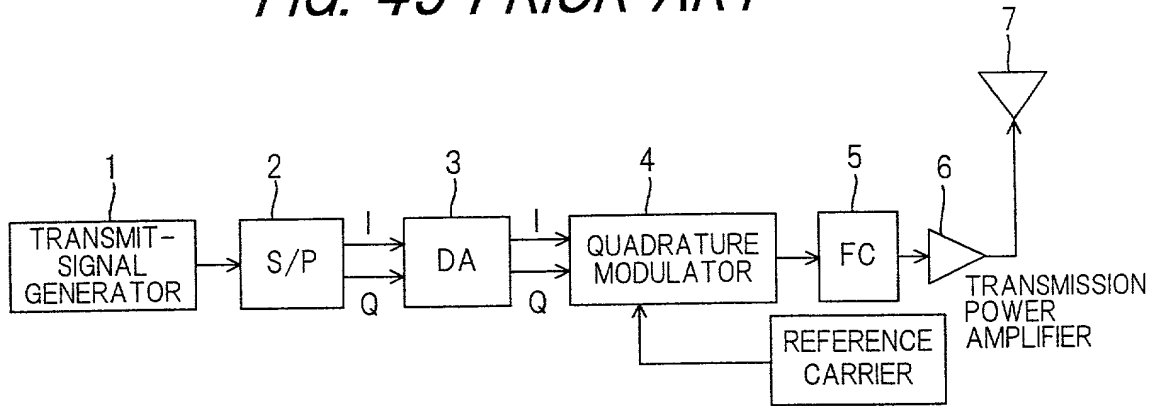
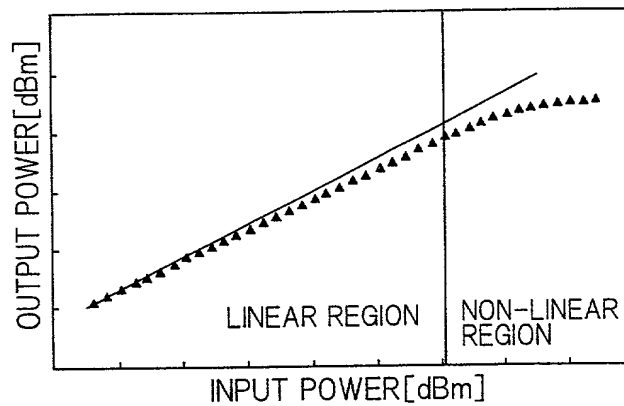
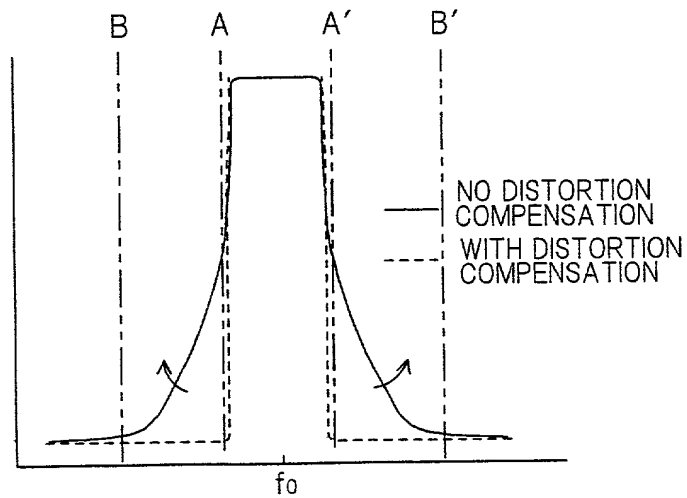
*FIG. 45 PRIOR ART**FIG. 46A PRIOR ART**FIG. 46B PRIOR ART*

FIG. 47 PRIOR ART

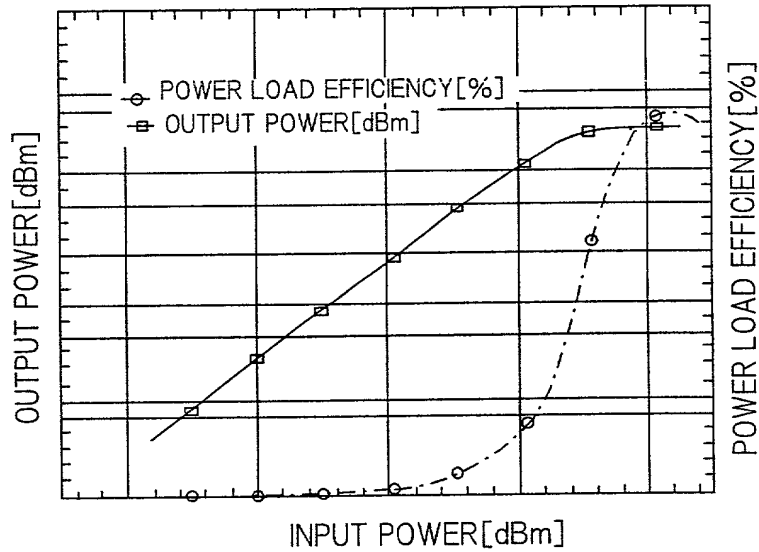


FIG. 48 PRIOR ART

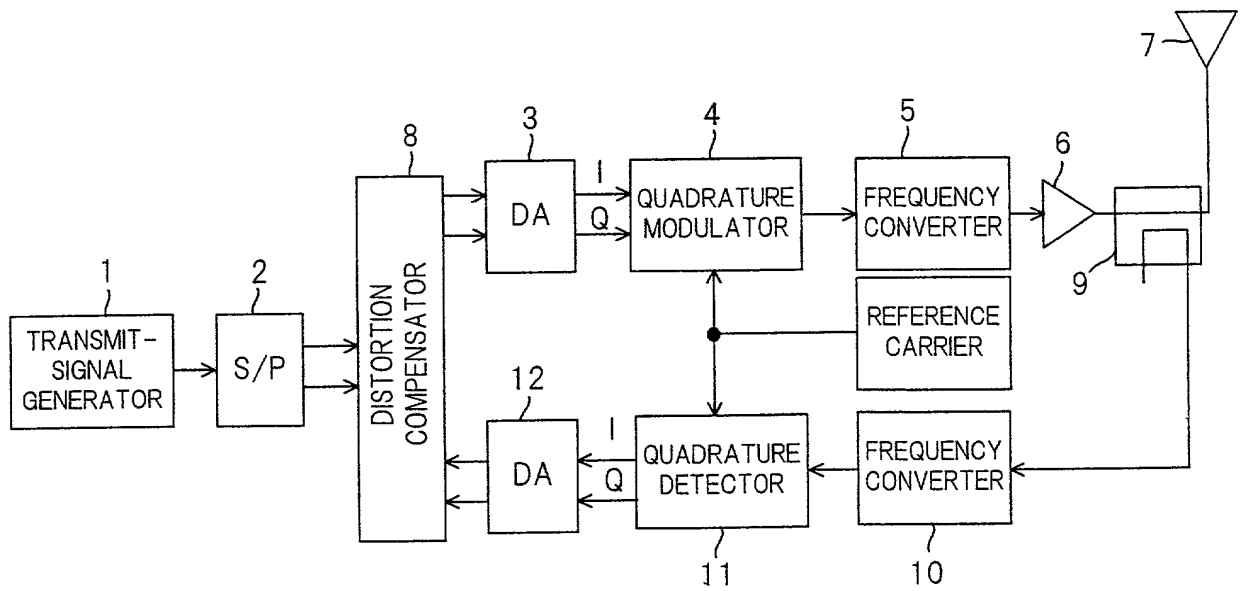
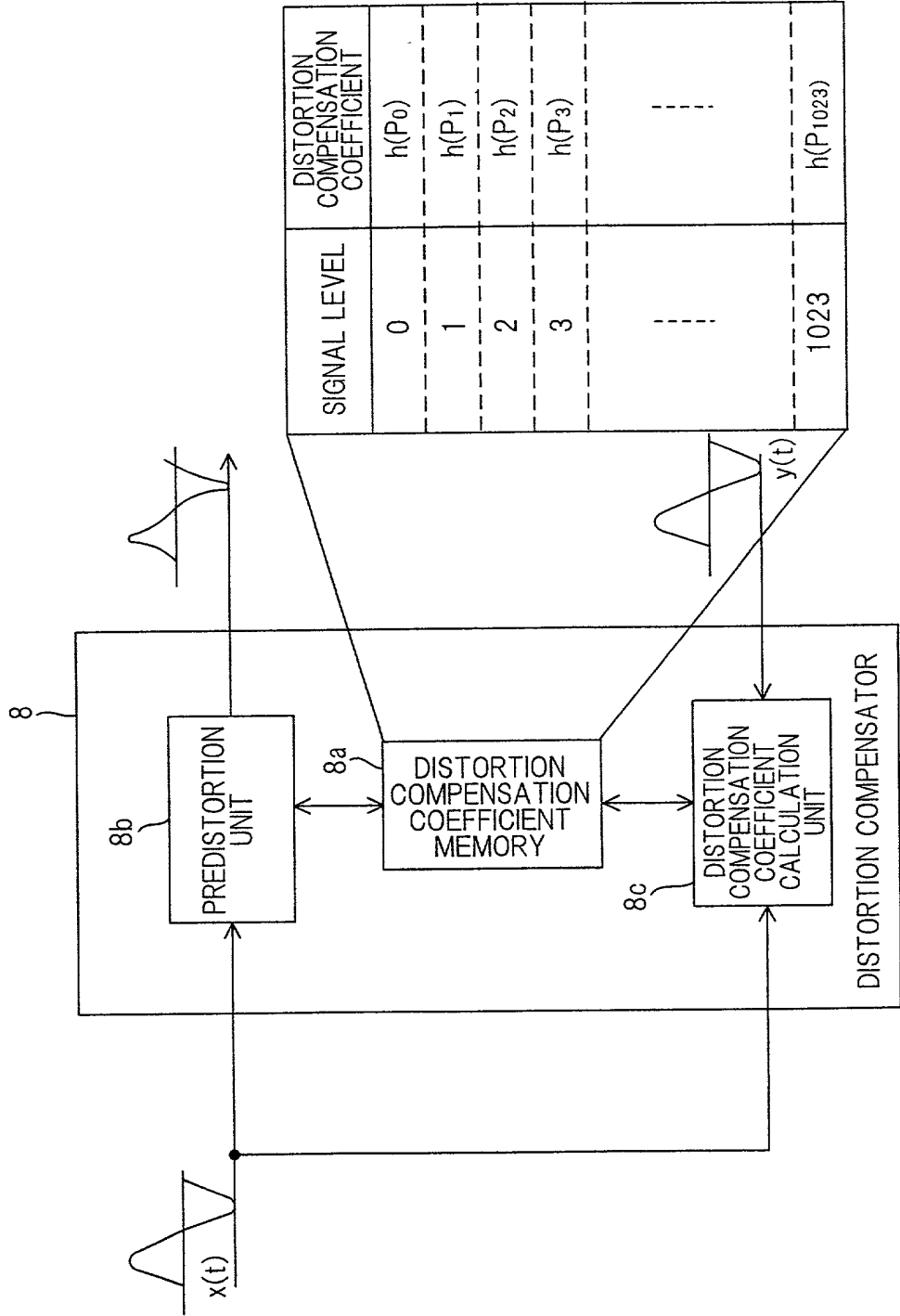


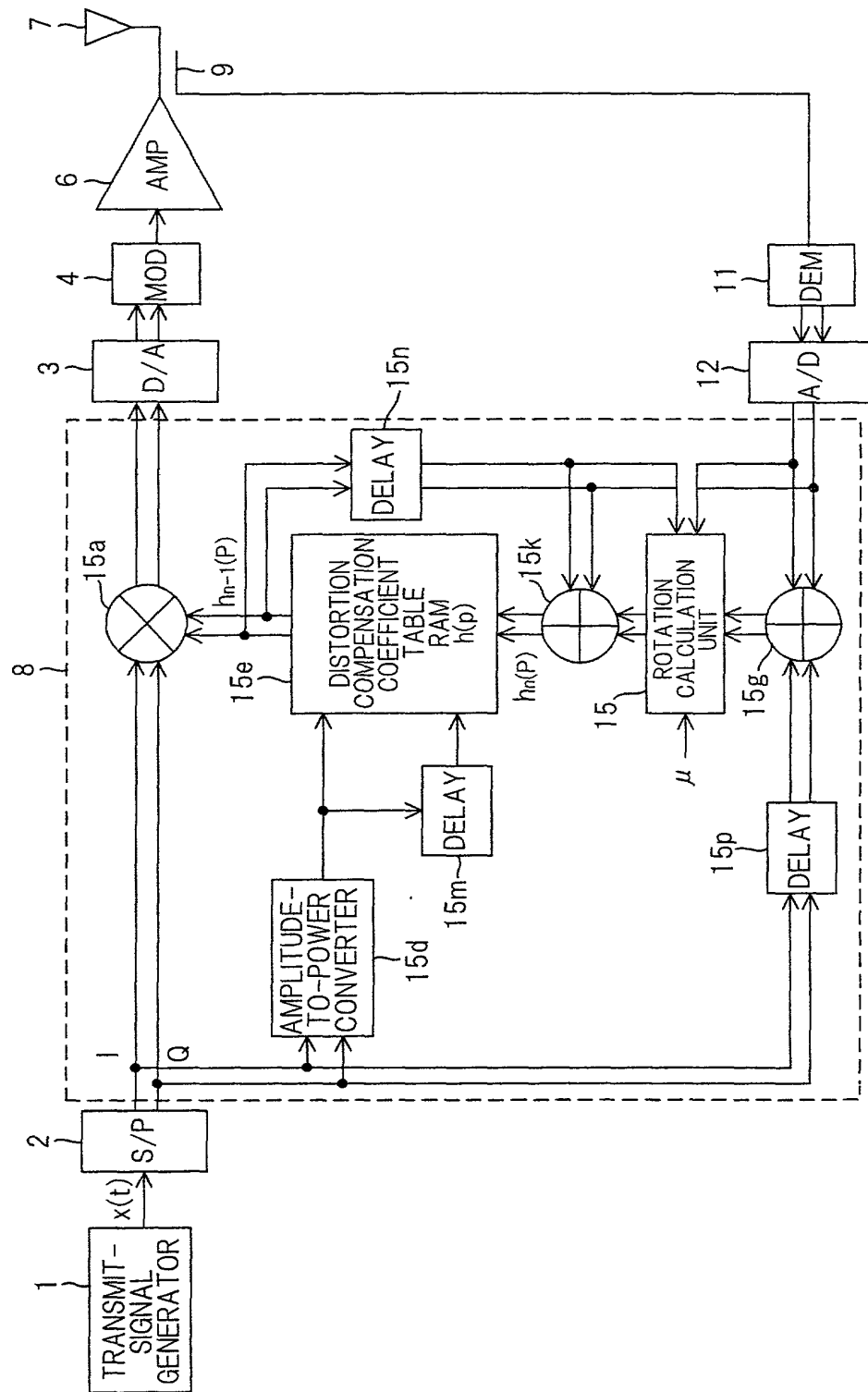


FIG. 49 PRIOR ART





Parameter	Value	Unit	Parameter	Value	Unit
$\alpha_1$	0.0000		$\alpha_2$	0.0000	
$\alpha_3$	0.0000		$\alpha_4$	0.0000	
$\alpha_5$	0.0000		$\alpha_6$	0.0000	
$\alpha_7$	0.0000		$\alpha_8$	0.0000	
$\alpha_9$	0.0000		$\alpha_{10}$	0.0000	
$\alpha_{11}$	0.0000		$\alpha_{12}$	0.0000	
$\alpha_{13}$	0.0000		$\alpha_{14}$	0.0000	
$\alpha_{15}$	0.0000		$\alpha_{16}$	0.0000	
$\alpha_{17}$	0.0000		$\alpha_{18}$	0.0000	
$\alpha_{19}$	0.0000		$\alpha_{20}$	0.0000	
$\alpha_{21}$	0.0000		$\alpha_{22}$	0.0000	
$\alpha_{23}$	0.0000		$\alpha_{24}$	0.0000	
$\alpha_{25}$	0.0000		$\alpha_{26}$	0.0000	
$\alpha_{27}$	0.0000		$\alpha_{28}$	0.0000	
$\alpha_{29}$	0.0000		$\alpha_{30}$	0.0000	
$\alpha_{31}$	0.0000		$\alpha_{32}$	0.0000	
$\alpha_{33}$	0.0000		$\alpha_{34}$	0.0000	
$\alpha_{35}$	0.0000		$\alpha_{36}$	0.0000	
$\alpha_{37}$	0.0000		$\alpha_{38}$	0.0000	
$\alpha_{39}$	0.0000		$\alpha_{40}$	0.0000	
$\alpha_{41}$	0.0000		$\alpha_{42}$	0.0000	
$\alpha_{43}$	0.0000		$\alpha_{44}$	0.0000	
$\alpha_{45}$	0.0000		$\alpha_{46}$	0.0000	
$\alpha_{47}$	0.0000		$\alpha_{48}$	0.0000	
$\alpha_{49}$	0.0000		$\alpha_{50}$	0.0000	
$\alpha_{51}$	0.0000		$\alpha_{52}$	0.0000	
$\alpha_{53}$	0.0000		$\alpha_{54}$	0.0000	
$\alpha_{55}$	0.0000		$\alpha_{56}$	0.0000	
$\alpha_{57}$	0.0000		$\alpha_{58}$	0.0000	
$\alpha_{59}$	0.0000		$\alpha_{60}$	0.0000	
$\alpha_{61}$	0.0000		$\alpha_{62}$	0.0000	
$\alpha_{63}$	0.0000		$\alpha_{64}$	0.0000	
$\alpha_{65}$	0.0000		$\alpha_{66}$	0.0000	
$\alpha_{67}$	0.0000		$\alpha_{68}$	0.0000	
$\alpha_{69}$	0.0000		$\alpha_{70}$	0.0000	
$\alpha_{71}$	0.0000		$\alpha_{72}$	0.0000	
$\alpha_{73}$	0.0000		$\alpha_{74}$	0.0000	
$\alpha_{75}$	0.0000		$\alpha_{76}$	0.0000	
$\alpha_{77}$	0.0000		$\alpha_{78}$	0.0000	
$\alpha_{79}$	0.0000		$\alpha_{80}$	0.0000	
$\alpha_{81}$	0.0000		$\alpha_{82}$	0.0000	
$\alpha_{83}$	0.0000		$\alpha_{84}$	0.0000	
$\alpha_{85}$	0.0000		$\alpha_{86}$	0.0000	
$\alpha_{87}$	0.0000		$\alpha_{88}$	0.0000	
$\alpha_{89}$	0.0000		$\alpha_{90}$	0.0000	
$\alpha_{91}$	0.0000		$\alpha_{92}$	0.0000	
$\alpha_{93}$	0.0000		$\alpha_{94}$	0.0000	
$\alpha_{95}$	0.0000		$\alpha_{96}$	0.0000	
$\alpha_{97}$	0.0000		$\alpha_{98}$	0.0000	
$\alpha_{99}$	0.0000		$\alpha_{100}$	0.0000	



*FIG. 52 PRIOR ART*